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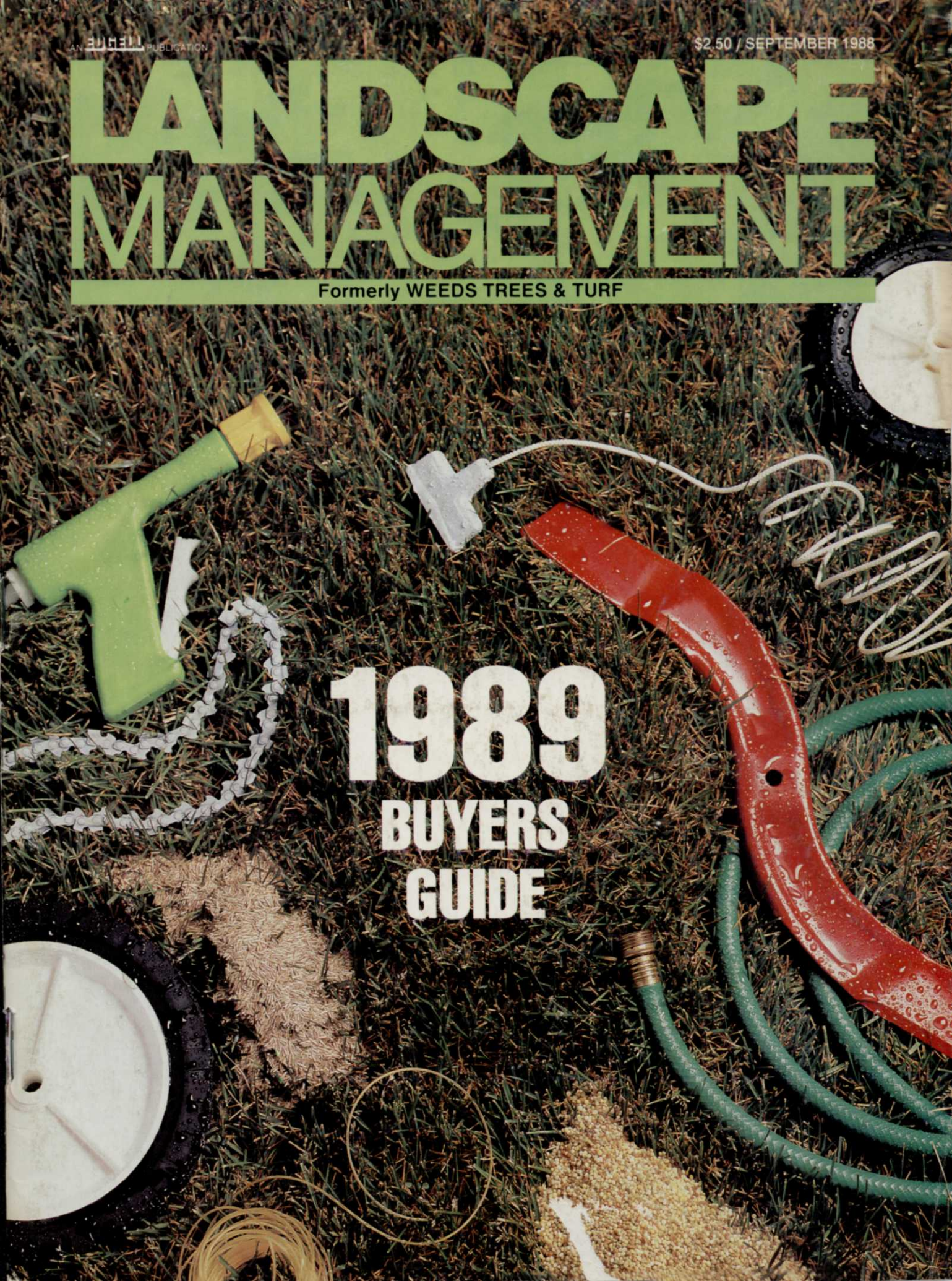

1989 BUYERS GUIDE

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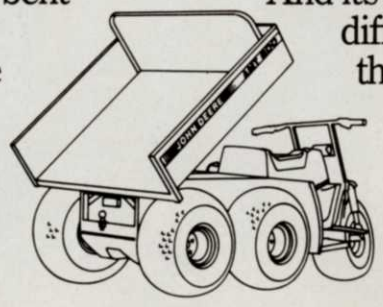

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OUT LANDSCUFFING

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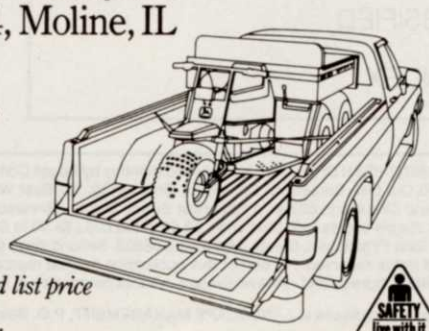

*On level ground
**Manufacturer's suggested list price not including sales tax. Price may vary with dealer.

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SEPTEMBER 1988, VOLUME 27, NUMBER 9

LANDSCAPE MANAGEMENT

Formerly WEEDS TREES & TURF

8

28

28 A LANDSCAPERS' HOME LIBRARY

Every once in a while, landscape managers must confront problems for which they don't have immediate answers. If they knew the vast array of books, brochures, video tapes and pamphlets available for turf and tree care, references would be no problem.

35 1989 BUYER'S GUIDE

As you begin to get ready to purchase equipment, chemicals and seed for the 1989 season, you'll want to refer to the annual Landscape Management Buyer's Guide, 34 pages of jam-packed information.

35 Equipment

58 Equipment companies

70 Chemicals

87 Chemical companies

92 Seed companies

96 Miscellaneous

DEPARTMENTS

6 NEWS/TRENDS

8 GREEN INDUSTRY NEWS

100 PRODUCTS

110 CLASSIFIED

116 AD INDEX

ON THE COVER: Some of the products available to landscapers and golf course superintendents through the 1989 LM Buyer's Guide

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BPA ABP EDGELL COMMUNICATIONS

The Rose Bowl at Pasadena, CA, January 1, 1988

Ferry-Morse Gold Tag Brand Covers the 1988 Rose Bowl

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Circle No. 172 on Reader Inquiry Card

A new perspective on chemicals

■ Why are federal health agencies pouring so much time and energy into regulating chemicals that pose less of a health hazard than peanut butter? That's the question being asked by Dr. Bruce Ames, a scientist in the biochemistry department at the University of California, Berkeley. Ames, creator of the Ames Test and one of the foremost consumer advocates of the 1960s, is again in the national spotlight since publishing *Ranking Possible Carcinogemic Hazards*, which challenges the government's method of assessing a chemical's potential risk.

According to Ames, researchers need to take into account how many people are likely to be exposed to a chemical and its threat at low doses, not merely what happens when you pump it into a rat. Case in point: Ames points out that the EPA banned EDB after determining it could cause three cases of cancer in 1,000 (about one percent of all cancer in the United States). "It would be more reasonable," writes Ames, "to compare the possible hazard of EDB residues to that of other common possible hazards. For example, the aflatoxin in the average peanut butter sandwich, or a raw mushroom, is 75 to 200 times, respectively, the possible hazard of EDB."

Ames adds that the alternatives to chemicals should be considered. That way, he says, regulators can set more realistic priorities for concern.

Arizona legalizes sterile carp

■ Golf course superintendents in Arizona have won the battle of the white amur. The fish, commonly known as a grass carp, had been used to control vegetation in course ponds and streams until the Arizona Game and Fish Department banned it last October. Citing its threat to the limited vegetation in the state's game rivers and fears that it would reproduce, the Department ordered the fish destroyed and created stiff penalties for those failing to comply.

A compromise was reached this summer when the state legislature approved the use of genetically altered variety of the fish, called a triploid, which is sterile.

"There has been no evidence that the triploid white amur has any environmental impact on the game fish population or waterfowl," said Dennis M. Wesseldine, a regional superintendent with the American Golf Corporation. "We must encourage all superintendents and golf organizations in the states where the amur is illegal to lobby with local state legislators to encourage the complete biological control of aquatic weeds."

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PEOPLE

This water lady hits the jackpot in Oregon

Color Maryann Mangucci's Cushman scooter any colors you want. Just use lots of them. Color its owner enthusiastic.

And that colorful combination has helped Mangucci become a successful businesswoman in just three years.

On any given summer day, you can see Mangucci putting around Silverton and Mount Angel, Ore., watering hanging baskets which have been placed in public areas.

The two chambers of commerce wanted to beautify their cities, so they erected the baskets and had flowers planted in them. Someone had to water the flowers, too, and Mangucci was in the right place at the right time.

It was husband Phillip's idea to purchase the 1971-model scooter; she has registered more than 800 miles in it. The scooter ("my efficient little workhorse") has a 55-gallon Cushman stainless steel tank, a pump hooked into the scooter's 12-volt battery, and a 13-foot wand made of conduit for lightness. Mangucci waters 25 hanging baskets in each city once a day—twice a day when the temperature gets over 90 degrees.

Why the brightly-painted scooter? "I wanted to be visible as well as pretty-looking," she says. "And it's worked out beautifully. I've been very successful. I've even had quite a few requests for landscape work, but I don't do that kind of work, so I refer them to my friends."

Before going into her own interiorscaping business, Mangucci spent 16 years working in a business office. "This beats it all together," she notes.

And then she's off again, in search of more baskets to water.

RESEARCH

Ohio State professors take to the road to address drought concerns of supers

Four members of the Ohio State University Agronomy Department toured areas of Ohio in mid-July to personally address drought concerns of golf course superintendents.

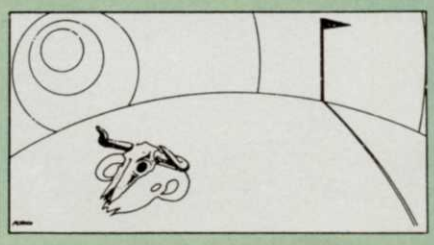
Participants in the tour were Ph.D.s John Street, Karl Danneberger, Harry Niemczyk and Bill Shane.

One of the final stops was at Quail Hollow Resort in Painesville, where superintendent Jim Loke assembled about a dozen superintendents from the northern Ohio area. Where the courses got their water and how it was used was a sore spot for some neighbors of golf courses.

Don Sweda, superintendent at Beechmont Country Club in Pepper Pike, said he received a crank phone call in the middle of the night from someone ordering him to stop watering. He uses water from lakes on the course to irrigate.

Jean Esposito of Hinckley Hills Golf Course in Hinckley, had her own experience which included the Cleveland Water Department, members of the local television media and crank phone calls (see related story).

Nearly all of the courses in the region ceased irrigating roughs early on, if they even had the capability to start with. Most public courses—without the large budgets of some of the private clubs—stopped watering fairways. These, too, were brown.



Danneberger noted that "the Cincinnati area was hit hard" because courses using municipal water were cut back severely.

One of the concerns expressed by the superintendents was whether this turf would recover with rainfall and green up again in the fall as conditions moderated.

Esposito, whose Hinckley Hills course has no fairway irrigation system, was optimistic after the first significant rainfall in weeks graced her course the previous weekend. "I can see some green coming back into them," she told the group—not much, but it was there.

"The grass must get some water," Danneberger noted. "Dormancy does not mean it won't die. But with this kind of year, there is stress on the grass we haven't seen in 50 years. There will be problems," he

GOLF

Drought spawns controversy

The "If-I-can't-have-it-neither-can-you" mentality hit northeastern Ohio golf courses hard in July over water use. The drought conditions forced homeowner watering bans that did not include businesses—which golf courses are considered.

Though about two inches of rainfall cooled tempers in the latter part of the month, the dry heat of the first part of the month did more than brown out turf. Most superintendents around the area got more than a few headaches from neighbors.

Superintendent Jean Esposito, of Hinckley Hills Golf Course, in Hinckley, had her share of troubles. When her lakes started dropping dangerously low, she researched ways of replenishing the level since heavy rainfall seemed out of the question.

She found through a series of applications, the course could get permission to draw water legally from the City of Cleveland. The necessary steps were taken and a permit and meter were obtained. Appropriate fire marshalls approved, and the county engineers allowed the laying of 7/10 of a mile of pipe to a nearby fire hydrant serviced by the Cleveland Water Department. "We didn't think there would be a problem," Esposito explains.

The course intended to draw about a million gallons or "whatever they permit us to take" over 30 to 40 days, Esposito says, drawing between the hours of 9 p.m. and 6 a.m.

However, testing the line in daylight was necessary to check for leaks and rate of gallons per hour they could draw. The course gained approval for this, and on the morning of the test got a call from a man claiming to be with the Cleveland Water Department approving the test, but not between 4 and 6 p.m.

The test began at noon and a film crew from WJKW-TV was there by 1 p.m. The story on the course aired that evening on the news, but didn't mention the legality of what the course was doing until two-thirds of the way through the feature.

Less than a half-hour after the film crew left, Hinckley Hills received another call from someone claiming to be with the water department, accusing the couse of abusing its use of the meter and asking them to return it.

Doubting the person's word, she called the man she had been dealing with at the department and found the claims were false.

At the end of July, Hinckley Hills got approval to draw water 24 hours a day and it will continue to draw "until we reach our limits or they tell us to stop," Esposito says.

Harry Niemczyk

Karl Danneberger

John Street

understated.

The best estimates at the time were that 20 to 25 percent of the lawn turf around the state was "dead with no recovery," Street said. "If these conditions continue through July and August, it's anybody's guess what will happen." (They didn't.)

Concerns on how the drought would affect other areas such as pest management also cropped up. Sweda's browned-out roughs were infested with Japanese beetles.With no irrigation to water in insecticides, he was looking for a solution.

Niemczyk, an entomologist, suggested milky spore disease as a solution, albeit a slow one. The disease, Niemczyk said, takes about three years of applications to become a serious control tool on grubs because it has to establish. Granular insecticides and "praying for rain" were also suggested.

Concerns about water quality also arose. Shane noted there was a "potential for water quality to drop with pesticides from adjacent farmland running into streams" after a significant rainfall. Shane recommended sampling water sources after rainfall for quality readings.

A couple other recommendations coming out of the meeting were to use slow release fertilizers and to not broadcast-apply herbicides to control clover that was popping up at the time. "But why would you want to kill it?" Esposito quipped. "It's the only thing that's green."

AWARDS

Dobie receives McLaren Award

Frank Dobie has received the Mal McLaren Award from the Northern Ohio Golf Course Superintendents Association, the oldest such group in the country.

The award, named in honor of the late superintendent of Canterbury and Oakwood Country Clubs and 1952 GCSAA president, was established 10 years ago by Don Sweda, superintendent at Beechmont Country Club, and his brother George, the golf writer for the Cleveland *Plain Dealer*. McLaren was an innovator in his 50

years as a superintendent, helping to advance the profession and its technology from the primitive toward today's standards. He served as a mentor to both Swedas when they worked summers at Oakwood, inspiring them to their chosen careers.

Dobie has been a superintendent nearly 30 years. He is the Sharon (Ohio) Golf Club's first and only superintendent and general manager, since 1964.

A product of Penn State's turf program, Dobie is active in numerous industry groups, and is at least partially responsible for the growth of the Musser Tournament and its beneficiary, the Musser Turf Foundation, of which he is the president.

Because of the special nature of the Swedas' relationship with McLaren and his tremendous contributions to the industry, they sought to keep the award from being an annual award, making it all the more meaningful.

The first—and only other—recipient was John Spodnik of Westfield Country Club in 1980.

"My first reaction is it's an honor to be given an award from my peers," Dobie said. "It's a reminder of people like John Spodnik, Mal McLaren, Bob Williams and Colin Smith and what they did for me when I was starting out: advice, counsel; there were no secrets.

"They're not the minority either.

continued on page 14

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NEWS *from page 11*

The majority of the industry is like that. I wanted to be like that, taking what I've been given and returning it to the industry; the time, efforts and skills so others can benefit. It's necessary for the continued growth and *esprit de corps* we have.

"I always viewed Mal as a groundbreaker," Dobie recalled. "That's the kind of environment that's been in this area for years," dating back to the early years of the local and national association, with such figures as Col. John Morley, president of GCSAA for the first six years of its existence.

"Whatever I've done here in the area," Dobie explained, "is consistent with what's been done here for 50 years. This award represents many people that are just as deserving. This is an acknowledgment of everybody."

CONFERENCES

Here comes the Landscape Expo!

Thousands of landscape professionals will convene in the Nashville (Tenn.) Convention Center on the weekend of Oct. 22-24 to attend the third annual Landscape Exposition. Billed as "the green industry's most far-reaching event," the Landscape Expo will offer an informative, economical and enjoyable weekend experience for professionals from landscape and grounds care facilities.

The Landscape Expo exhibit floor will be packed with displays of the latest in lawn care products, chemicals, fertilizers, seed, irrigation systems, power equipment, accessories and more. Among the major manufacturers to be represented are: Cushman, Deere, Yamaha, Toyota, Snapper, Grasshopper, Monsanto, HMC, Chevron, Northrup King, Reinco, Buckner Irrigation, Elanco, Hoechst-Roussel, Hydra Mac, Befco and Teledyne Total Power.

"The Landscape Expo brings the many diverse groups within the landscape industry together under one roof," says show manager Becky Lerew, "giving them the opportunity to meet with their peers and also see the newest and most advanced products and equipment.

"Plus, the Landscape Expo seminars offer them the chance to update their business management skills and learn of new solutions to technical and regulatory problems that face the entire industry."

The Expo has been carefully planned to be convenient to attend. The fall timing means that they can afford to spend a few days away from their businesses, and are ready to plan purchases for the coming season. The show's weekend dates make it easy to bring the family and combine business with pleasure. Nashville is a terrific spot for family entertainment, with attractions that include the Grand Ole Opry and Andrew Jackson's Hermitage, shopping, dining and nightlife.

Special discount coupons will be mailed to everyone who pre-registers for the Expo, and special in-hall entertainment, prizes and giveaways will add excitement to the show.

The Convention Center is easily accessible from major highways. Attendees can choose from a wide variety of accommodations ranging from first-class hotels to KOA Campgrounds. Specially discounted travel hotel rates are available through Travel Planners, the official travel agency of the Landscape Exposition.

For more information on the third

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Three ways Mazda trucks outperform the competition.

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TOYOTA #2	TOYOTA #2	TOYOTA #2
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Standard Features	Mazda B2200 Base	Toyota Standard	Nissan Standard	Ford Ranger "S"	Chevrolet S-10 "EL"
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Automatic transmission	Optional	N/A	N/A	N/A	N/A
Double-wall cargo bed	Standard	Optional	Standard	Standard	Standard
Tinted glass	Standard	Optional	N/A	N/A	Optional
Steel-belted radials	Standard	Optional	Standard	Standard	Standard
Full carpeting	Standard	N/A	N/A	N/A	N/A

To find out even more ways Mazda outperforms the competition, contact:
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*J.D. Power & Associates 1986 and 198/ Compact Truck CSI and 1988 Light-Duty Truck CSI customer satisfaction with product quality and dealer service. **See your Mazda Dealer for limited-warranty information.
†Comparisons with other makes based upon available competitive data.

mazda

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annual Landscape Expo, phone Lerew or Mary Sue Christoffers at (203) 853-0400 or write c/o Edgell Expositions, 50 Washington St., Norwalk, CT 06854.

INDUSTRY

Pesticide groups solve problem—together

A pro-pesticide and an anti-pesticide group recently set a precedent by actually sitting down and talking to each other instead of facing off against one another. Involved were members of the Professional Pesticide Users of Connecticut and the Connecticut Clean Water Coalition, an environmental group.

The result of their meetings, which covered the concerns and interests of both sides, was a jointly-sponsored bill which was passed by state legislature.

Two sections of the bill specifically affect pesticide application.

First, a central registry will be created for people wanting prior notification of applications within 100 yards of abutting property.

Secondly, section 1(c) states: "Any person making an outdoor application of a pesticide...shall at the time of such application post a sign notifying the public of the application." Yes, that means homeowners, too.

This inclusion seems partially a result of a study conducted by the Connecticut Agricultural Experiment Station on the amount of pesticides applied and by whom. The study, published last October, notes that while agriculture uses about 33 percent and industrial, commercial and government use about 6 percent, homeowners account for 61 percent of the pesticides applied in the state.

It should be noted that the Connecticut EPA puts that figure at 26 percent for homeowners and the U.S. EPA puts it at 7 percent for "home and garden."

The co-chairperson of the state general assembly, Rep. Mary M. Mushinsky, lauded the unity by presenting the bill's sponsors with a bottle of champagne at the public hearing.

NATIVES

Native wildflowers a way to save $$$

A study of wildflower mixtures on the market by the National Wildflower Research Center concluded that native species in the mixtures were more successful than non-natives.

"One of the most significant results is that in the first year the majority of species that flower successfully are indigenous," the study states. "They out-perform non-natives by a three-to-one ratio."

The trend continues in the second year as well, and by the third year "100 percent of the species that flower are indigenous," the study concluded.

Natives are better adapted to environmental, climate and soil conditions in a given area and usually survive with little or no maintenance once established. Selecting mixtures containing higher ratios of natives, though more expensive initially, will save on irrigation and maintenance costs in the long term.

INDUSTRY

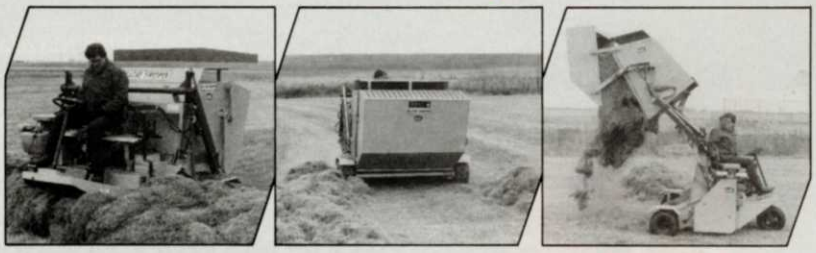
Consultant warns of anti-chemical warfare

Industry consultant Alan Caruba warned attendees of the Chemical Specialties Manufacturers Association mid-year meeting of a "deluge of heavily financed, sophisticated environmentalist propaganda."

Continued on page 18

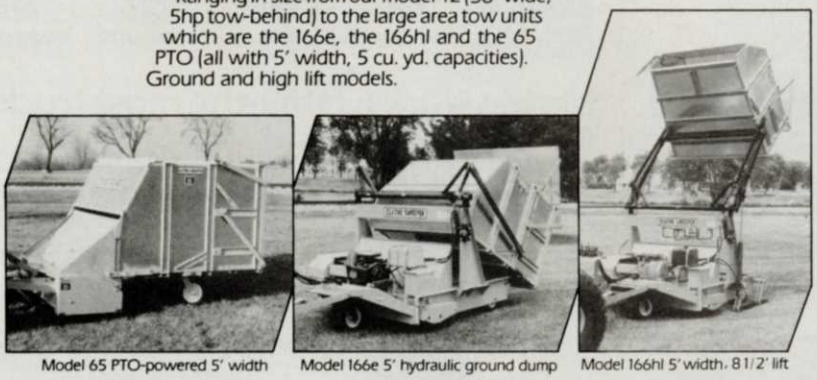
Equipment for the turf care professional. **Olathe**

Setting the standards for sweepers.

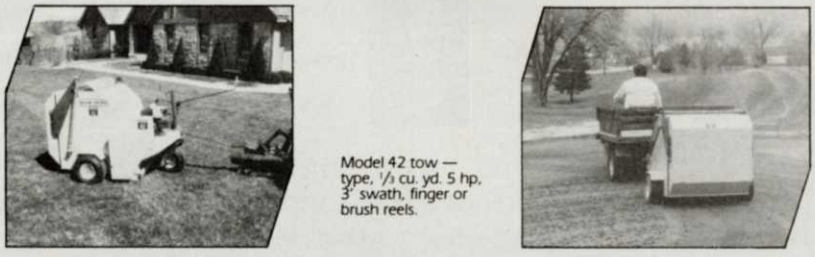


Feel like your grass clippings may be getting ahead of you? Try this model 54HL 5' self-propelled sweeper unit with high lift for large area cleanup. 24hp engine, hydraulic-drive, with optional thatcher, sweeps wet or dry materials using 'sure-grip' rubber fingers.

Olathe personnel have been helping solve leaf/debris problems for over 30 years. Ranging in size from our model 42 (36" wide, 5hp tow-behind) to the large area tow units which are the 166e, the 166hl and the 65 PTO (all with 5' width, 5 cu. yd. capacities). Ground and high lift models.



Model 65 PTO-powered 5' width | Model 166e 5' hydraulic ground dump | Model 166hl 5' width, 8 1/2' lift



Model 42 tow — type, 1/3 cu. yd. 5 hp, 3' swath, finger or brush reels.

Write or call your local Olathe/Toro dealer for free demo or call 1-800-255-6438.

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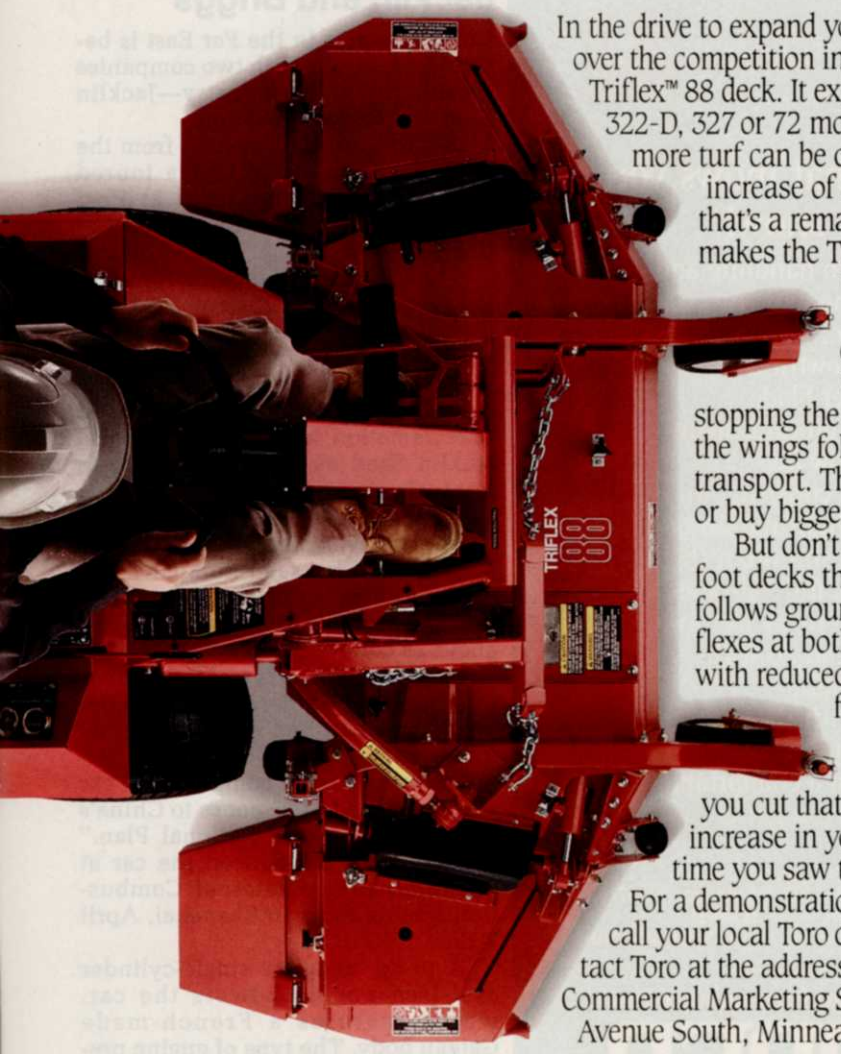

In the drive to expand your productivity, Toro has widened the lead over the competition in a most dramatic way. Presenting the new Triflex™ 88 deck. It expands the cutting range of Groundsmaster® 322-D, 327 or 72 models to an incredible 88 inches. That means more turf can be cut with fewer man-hours. A productivity increase of 22% over out-front six foot mowers. Now that's a remarkable achievement in itself. But what really makes the Triflex 88 unique are the movable hydraulic wings on either end of the deck.

By raising both wings, one or neither, you can change your cutting width from 54″ to 72″ or to 88″. And it can be done without stopping the machine or leaving the operator's seat. And the wings fold up conveniently to a width of 72″ for easy transport. This eliminates the need to change equipment or buy bigger, more expensive trailers.

But don't let the Triflex's size fool you. Unlike other 6-foot decks that sacrifice quality of cut for size, the Triflex follows ground contours like a 52″ cutting unit. The deck flexes at both ends so you can make an 88″ cutting pass with reduced risk of scalping. The result is the same uniform quality of cut Groundsmaster is famous for. Including high quality rear discharge dispersion of grass clippings to give all areas you cut that finished appearance. If you're open to a 22% increase in your productivity, it's time you saw the Triflex 88 for yourself. For a demonstration or more information, call your local Toro distributor today or contact Toro at the address below. The Toro Company, Commercial Marketing Services, 8111 Lyndale Avenue South, Minneapolis, MN 55420.

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The professionals that keep you cutting.

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Naturally Better

...because, the same Grasshopper that mows your grass and picks up leaves, also clears snow!

That's right. The same natural control, superb handling and uncanny maneuverability that's yours during the mowing season is available year-round with Grasshopper...thanks to quality attachments like our rugged 48-inch snowthrower, Sweepster rotary broom and multi-purpose dozer blade.

Each is designed Grasshopper tough, for the grounds maintenance pro who doesn't quit when the first snow flies. The snowthrower features heavy-gauge welded steel construction and a 12-inch diameter auger with 3/16-inch flighting. And, of course, it's PTO-driven, so there are no belts to slip when the going gets rough. The discharge spout rotates a full 180 degrees, so you can put the snow where you want it...up to 25 feet away.

What's really amazing, though, is what you can do with quality attachments, mounted outfront, on an agile Grasshopper zero-turn-radius tractor. It turns within its own length and lets you change direction-of-travel instantly, without stopping to shift gears. All, from within a comfortable operator enclosure. Versatility is what it takes...you get it with Grasshopper.

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YOUR NEXT MOWER

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NEWS *from page 16*

Speaking to the CSMA Pesticide Division, Caruba noted that pest control industries "produce chemicals which protect billions of dollars of crops, billions of dollars of property and millions of Americans from (numerous) diseases and health threats. But you're not telling the public that."

Caruba criticized chemical manufacturers for not taking on the "toxic terrorists" trying to eliminate many of the chemical tools the industry employs. "You're going to fail in your battle with the toxic terrorists," he warned. "When will the pesticide manufacturers effectively begin to respond with a program of public information, education and relations of its own?"

INDUSTRY

Bridging the Pacific helps business at Jacklin and Briggs

Doing business in the Far East is becoming *de rigeur* with two companies serving the green industry—Jacklin Seed and Briggs & Stratton.

A four-person delegation from the People's Republic of China toured seed production facilities at Post Falls, Idaho-based Jacklin Seed earlier this year.

The Chinese are looking for ways to best spend $47 million on seed conditioning equipment and improved seed during the next 20 years.

Because of serious erosion problems, the People's Republic is in need of reclamation seed to stabilize soils. Jacklin Seed made arrangements to test turfgrass and reclamation seed in six locations in China next year.

International marketing is not new to Jacklin. The seed company has been working with China for about four years and also exports seed to about 25 countries.

Briggs & Stratton is making inroads into the huge Chinese market by developing a gasoline engine-powered mini-car.

According to the company, the car was developed in response to China's seventh "Five Year National Plan." The company introduced the car at the International Internal Combustion Engine Expo in Shanghai, April 7-12.

A 16 hp Model 32 single-cylinder cast-iron engine powers the car, which features a French-made Gateau body. The type of engine previously was used in tractors and mowing equipment.

B&S and Chongging Puling Machinery Works will manufacture the

continued on page 21

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The Green Industry's Most Far-Reaching Event

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Circle No. 168 on Reader Inquiry Card

engines under a joint venture agreement for the car and other potential Chinese applications. In addition to the 16 hp engine, the venture group, called Puling-Briggs & Stratton Engine Corp., will build a 10 hp model as well.

The Chinese mini-car will travel at speeds up to 35 miles per hour. It is intended for short-distance use on the new roads China is building to link cities and suburban and rural areas. Other applications could be as a taxi or delivery vehicle.

LANDSCAPING

Round house solves maintenance woes

How far will a man go to "get around" maintaining his property? Apparently the full 360 degrees.

That's the case with Ronald Farrell, 55, a commercial fisherman in South Dayton, New York, who decided he'd rather spend his time and money tracking Lake Erie walleye than maintaining his house. He designed and built this circular home in six months by stacking 16-inch lengths of Tamarac wood and mortaring them in place. The walls are eight feet high and support a waterproof roof that is topped by 10 inches of topsoil and seeded with a legume and wildflower mixture.

Ronald Farrell's round house in South Dayton, NY was inexpensive to build and is easy to maintain.

The house, which rests on his seven acre lot, is exceptionally energy-efficient, cost about as much as a pickup truck and, except for a triannual haircut with an Echo trimmer, is virtually maintenance free.

"More than that, I think it tells the younger fellas that for next to nothing you can have yourself a nice home without the big banks and the big mortage payments," said Farrell. "If you got the spirit, the get-up-and-go, you can do it."

continued on page 22

NEWS *from page 21*

NEW PRODUCTS

Compound controls unwanted tall fescue

A new compound developed through research at Iowa State University selectively controls tall fescue in a number of established grasses.

The compound, chlorsulfuron, is a product of E.I. Du Pont de Nemours marketed by Lesco as Lesco TFC. The dispersable granular herbicide is labeled for established Kentucky bluegrass, fine fescue, bentgrass, bahiagrass and Bermudagrass.

Tests on annual bluegrass tolerance were inconclusive, in one instance showing tolerance, and in another showing damage, according to Nick Christians, Ph.D., Iowa State. The product *will* kill perennial ryegrass.

The compound was originally tested as a low-use-rate broadleaf weed controller. But it also discolored tall fescue contaminating Kentucky bluegrass plots, leading to tests to control tall fescue by Christians and D.J Laroque at Iowa State in 1982 and 1983.

Greenhouse trials showed chlorsulfuron's effect on tall fescue was slow, taking four weeks to show signs of damage, eight for complete kill. The compound was also effective in fall

uses even when the tall fescue went into dormancy.

PRODUCTS

Carpet produces lightweight sod

Fast Grass, Inc. is trying to take some of the backache out of laying sod.

The Oxnard, Calif., company purchased the rights to manufacture and distribute a jute and hemp carpet inlaid with grass seed at the factory. When rolled out on plastic and watered, the carpet produces a saleable stand of turf in about 45 days. Without dirt.

The carpet, developed and tested successfully in Europe, weighs about 70 pounds in a four- by 100-foot roll. When the turf is grown, the roll is cut into 25-foot sections for easy handling by one person. This is considerably less burdensome than the average roll of conventional sod.

Because of this, the owners of Fast Grass—Doug Cowle and Evan Melby—are hoping to sell the product to sod farmers, landscapers and even homeowners. They see a day when the homeowner can go into the supermarket, buy a 50-square-foot roll and grow it themselves to replace dead spots. The carpet could also have a home on golf courses and in areas requiring erosion control.

The two men estimate the cost of the carpet will be about the same as dirt-grown sod, but that the carpet can lead to savings in labor and water costs. Large harvesting equipment won't be needed, and less water is

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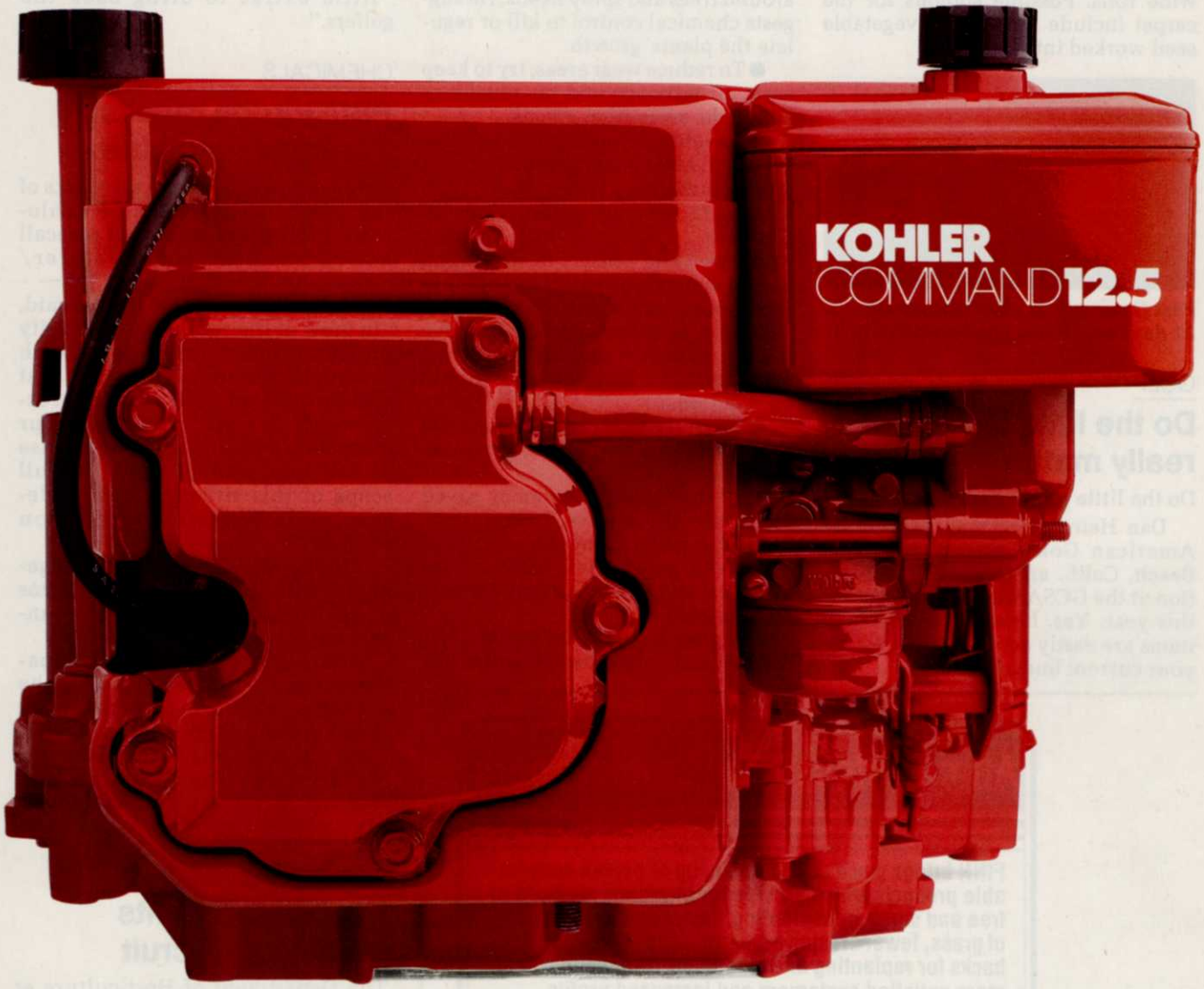

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Command engines also offer overhead valves; Kohler's electronic ignition system; full pressure lubrication; full flow oil filters; hydraulic lifters and more. Oil Sentry™ protection is available.

For more information about Kohler Quiet Plus or the complete line of Command engines write Kohler Co., Engine Division, Kohler, Wisconsin 53044. Or call 414-457-4441.

KOHLER engines

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used since the plastic underlay keeps more moisture in the root area.

In addition to the four-foot-wide roll, the carpet also comes in 12-foot-wide rolls. Possible spinoffs for the carpet include flower and vegetable seed worked into the fabric.

Fast Grass on its plastic liner after 22 days exhibits a good stand of turf.

GOLF

Do the little things really matter?

Do the little things really matter?

Dan Hein, a regional director for American Golf Corp. in the Long Beach, Calif., area, asked this question at the GCSAA conference earlier this year. Yes, he answered. "These items are easily accomplished within your current budget."

So what can be done? To start with, economize, Hein stresses.

- Eliminate or reduce time-consuming tasks such as trimming grass around trees and spray heads. He suggests chemical control to kill or regulate the plants' growth.
- To reduce wear areas, try to keep carts off fairways and on roughs or cart paths away from greens.
- Leveling irrigation heads, Hein says, will also speed up mowing.
- A fertigation system is a way to eliminate manual applications of fertilizer.
- Use water sensors to streamline use of irrigation water, using only when necessary. Preventive maintenance on equipment will also save money, he says. A thorough wash and post-operative maintenance should be standard.
- Properly training operators and then organizing the maintenance area also help.

And then, "put the money saved back into the course," Hein says. American golf goes by the concept of clean and green, Hein notes. "Use cleansers and paint to keep the course looking good."

Keeping ballwashers rust-free, painted and with a fresh towel is one way, he believes. Also, little things like clean walkways with plant borders, 150-yard markers and even contouring roughs improve appearance, "little extras to bring back the golfers."

CHEMICALS

PBI/Gordon recalls Teremec fungicide

PBI/Gordon is recalling all stocks of the fungicide Teremec SP (chloroneb) following receipt of a recall notice from the manufacturer/formulator.

The company's press release said, "In view of the recent phytotoxicity problem which has developed with some of the chloroneb fungicide that was formulated by Drexel, we recommend that you advise all your customers and (end users) to not use or sell this product until the full scope of this situation can be detemined. We will keep you advised."

PBI/Gordon is making arrangements with distributors for returns of all Teremec SP, broken or unbroken, for credit.

Courses affected by contamination range from Atlanta, Ga. up the Atlantic seaboard into southern New York and as far west as Denver.

At press time, PBI/Gordon was investigating the situation and planned to release a statement in late August.

ACADEMIA

Hort departments starting to recruit

The Department of Horticulture at Virginia Polytechnic Institute recently began a recruiting program to draw prospective students into its horticulture program.

The program is spearheaded by department head and professor Thomas A. Fretz and professor Paul Smeal.

The two are appealing to current horticulturists who know people with an interest in plants, horticulture and/or botanical science. Names of prospective students will be sent to Smeal at VPI so that the department can follow up by sending information regarding the program and the school.

This information includes a brochure produced by the department which gives information about the university, brief explanations of horticulture and career opportunities in horticulture.

Continued on page 26

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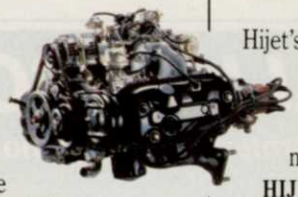

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News *from page 24*

Smeal notes that the opportunities for horticulturists are excellent since about five to 10 positions are available for every graduate.

DEALERS

Deere distributors now selling seed

Turf-Seed Inc. of Hubbard, Ore., has entered into an agreement with the John Deere Golf & Turf Group to provide proprietary turf cultivars for sale by the 50 Deere distributors in the U.S. and Canada.

"Providing turf seed is another way we intend to provide our distributors and customers with products and services that help superintendents increase productivity and maintain high standards of turf quality," says Ken Edwards, manager of golf and turf products at Deere.

Turf-Seed president Bill Rose says that Bill Meyer, Ph.D., and Crystal Rose Fricker will research new varieties for Deere's distribution. "We appreciate the opportunity to work closely with a quality-conscious organization like John Deere," Rose says.

LITERATURE

New newsletter serves landscapers

In-site is a new bi-monthly newsletter written specifically for landscape management executives. It takes a practical "how-to" approach to the science of landscape management.

The editorial staff of the newsletter includes experts in many of the landscape design and management disciplines including horticulture, architecture, agronomy, urban forestry, arboriculture and advanced business management.

To receive a complimentary issue of *In-site*, send a post card with your name, title, company name and address to: *In-site* editor, 24380 N. Highway 45, Vernon Hills, IL 60061 or call (312) 634-8888.

Gravely International

Runners competing in the Gravely International Five-Mile Run start a course that winds through scenic backroads in rural North Carolina and ends up here—the headquarters of Gravely International, manufacturer of outdoor power equipment. The race was a highlight of the festivities that surrounded the Third Annual Gravely Open House, held at Gravely's Clemmons, N.C., headquarters at the end of May. Runners from as far away as California competed.

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A LANDSCAPERS' HOME LIBRARY

Every once in a while, landscape managers must confront problems for which they don't have immediate answers. If they knew the vast array of books, brochures, video tapes and pamphlets available for turf and tree care, references would be no problem.

Here are some of the publications and videos being made available to the turf and tree manager which have crossed the LANDSCAPE MANAGEMENT editorial desks in the last few months. Some are free, others have prices up into the hundreds of dollars:

ATHLETIC TURF: "Developing with Recreational Amenities," book, $48; Urban Land Institute, 1090 Vermont Ave. NW, Washington, DC 20005.

ATHLETIC TURF: "Sidelined" and "Hard Knocks," reprints from LANDSCAPE MANAGEMENT, $5.50 each, both for $8; Kathleen Maciuszko, HBJ Publications, 7500 Old Oak Blvd., Cleveland, OH 44130.

ATHLETIC TURF: "Athletic Fields—Specification Outline, Construction and Maintenance," booklet, free; John C. Harper II, Ph.D., Dept. of Agronomy, Penn State University, University Park, PA 16802.

ATHLETIC TURF: "Athletic Field Construction and Maintenance," by D.H. Taylor, G.R. Blake and D.B. White, booklet, $1; Distribution Center, Extension Service, Coffey Hall, University of Minnesota, St. Paul, MN 55108.

BUSINESS: "Managing Service for Success," by John R. Beck, book, $25 + $3 shipping and handling; International Pest Management Consultants, 3631 W. Pasadena, Phoenix, AZ 85019.

BUSINESS: "Marketing Plan Manual," 34 pages, free to new G.C.A. members, $25.00 to others; Golf Course Association, 8030 Cedar Ave. Suite 228, Minneapolis, MN 55420.

BUSINESS: "Collection Strategies and Techniques" by R.D. Rutherford, 120 pages, $19.95; National Association of Credit Management, Publications Division, 520 Eighth Ave., New York, NY 10018-6571.

CEMETERIES: "The More Objections the Better" by Eric S. Marmorek, book, $10.95 for ACA members, $14.95 for non-members; American Cemetery Association, 5201 Leesburg Pike, Suite 1111, Falls Church, VA 20041.

DESIGN: "The Art of Landscaping

Design," videotape series, $179.70 for six or $359.40 for 12; United Home Video, 4111 S. Darlington, Suite 600, Tulsa, OK 74135.

DISEASES: "The Nature of Wilt Diseases of Plants" by C.H. Beckman, 132 pages, $34; APS Books, 3340 Pilot Knob Rd., St. Paul, MN 55121.

DISEASES: "Methods for Evaluating Pesticides for Control of Pathogens," 300 pages, $59; American Phytopathological Society, 3340 Pilot Knob Rd., St. Paul, MN 55121.

ENDANGERED WILDFLOWERS: Endangered Wildflowers calendar, $6.95; Wildflower Rediscovery Project, American Horticultural Society, P.O. Box 0105, Mt. Vernon, PA 22121.

ENGINE REPAIRS: "Troubleshooting Carburetors" and "Understanding Ignition Systems," videotapes, NPL; Tecumseh Engine and Gear Service Div., 900 North St., Grafton, WI 53024.

ESTIMATING: "Estimating and Management Principles for Landscape Contractors," 150 pages, $51; Charles Vander Kooi, P.O. Box 621414, Littleton, CO 80162.

FACILITIES: "Facilities Management," 864 pages, $70 ($50 to members of APPA); Association of Physical Plant Administrators of Colleges and Universities, 1446 Duke St., Alexandria, VA 22314-3492.

GOLF COURSES: "Planning the Municipal Golf Course," 12 pages, free; American Society of Golf Course Architects, 221 N. LaSalle St., Chicago, IL 60601.

GOLF COURSES: "Evolution of the Modern Green" by Michael A. Hurdzan, Ph.D., brochure, $5, American Society of Golf Course Architects, 221 N. LaSalle St., Chicago, IL 60601.

HAZARDOUS WASTE: "Hazardous Waste Regulation, the New Era" by Richard C. Fortuna and David J. Lennett, 400 pages, $59.50; McGraw-Hill, P.O. Box 400, Highestown, NJ 08520-9989.

HAZARDOUS WASTE: "Hazard Classification Systems," 212 pages, $52; "OHSA's Right to Know: Hazardous Chemicals," 250 pages, $70; "Right to Know," 270 pages, $65; "Using the Hazardous Waste Manifest," 304 pages, $55; "Directory of State Hazardous Waste Officials," 200 pages, $35; all available from Hazardous Materials Information Center, 62 Washington St. Suite 30, Middletown, CT 06457.

INSECTS: "Controlling Lawn and Garden Insects," 96 pages, $6.95; available in garden stores coast to coast; more information: Ortho Information Services, 575 Market St., San Francisco, CA 94105.

INTEGRATED PEST MANAGEMENT: "Least Toxic Lawn Management," 26 pages, $6.10; BIRC, P.O. Box 7414, Berkeley, CA 94707.

IRRIGATION: "Quik-Pro Irrigation Guide," 70 pages, NPL; KKW Inc., 20470 Corsair Blvd., Hayward, CA 94545.

IRRIGATION: "Turf Irrigation Manual" by James A. Watkins, book, more information from Weather-matic, P.O. Box 18205, Dallas, TX 75218.

LANDSCAPE DESIGN: "Fast and Effective Plan View Drawing Methods," "Color Rendering Techniques for Presentation Drawings," 90 and 75 minutes, $95.95 each, $155 together; The Idea Bank, 1000 E. Apache Blvd., Suite 211, Tempe, AZ 85281.

LANDSCAPE DESIGN: "Residential Landscapes: Graphics, Planning, Design" by Gregory M. Pierceall; book, Reston Publishing c/o Prentice-Hall, Book Distribution Center, Route 59 at Brook

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Hill Drive, West Nyack, NY 10994.

LANDSCAPE DESIGN: "Landscaping with Perennials," 302 pages, $34.95; Timber Press, 9999 S.W. Wilshire, Portland, OR 97225.

LANDSCAPE DESIGN: "Bibliography of Landscape Architecture, Environmental Design and Planning" by Antoinette Paris Powell, 356 pages, $74.50; Oryx Press, 2214 North Central at Encanto, Phoenix, AZ 85004-1483.

LANDSCAPE ESTIMATING: "Cost Data for Landscape Construction," 232 pages, $37.50; Kerr Associates, 1942 Irving Ave. S, Minneapolis, MN, 55403.

LANDSCAPE ESTIMATING: "Estimating and Management Principles for Landscape Contractors" by Charles Vander Kooi, book, $49 plus $2 shipping; CVK, P.O. Box 621414, Littleton, CO 80162.

LANDSCAPE ESTIMATING: "Means Landscape Estimating" by Sylvia Hollman Fee, 225 pages, $41.95; R.S. Means, 100 Construction Plaza, Kingston, MA 02364.

LAWN CARE: "Common Sense Answers to Turf Care Questions," video, $20; Professional Lawn Care Assn. of America, 1225 Johnson Ferry Rd. NE, Suite B-220, Marietta, GA 30068.

LAWN CARE: "A Lawn Care Professional's Guide to Developing a Marketing Plan," $20 PLCAA members, $40 non-members; PLCAA, 1225 Johnson Ferry Rd., Suite B-220, Marietta, GA 30068.

LAWN CARE: Total Turf Management Program (booklets, reports), NPL; Communications Dept., Nor-Am Chemical Co., P.O. Box 7495, Wilmington, DE 19803.

LAWN CARE: "Media's Lawn Care Scare," brochure, NPL; PLCAA, 1225 Johnson Ferry Rd., Suite B-220, Marietta, GA 30068.

LIGHTING: National Lighting Bureau, brochure on security and outdoor lighting, free; National Lighting Bureau, 2102 L. St., NW, Suite 300, Washington, DC 20037.

ORNAMENTALS: "Compendium of Ornamental Foliage Plant Diseases" by A.R. Chase, 92 pages, $20; APS Books, 3340 Pilot Knob Rd., St. Paul, MN 55121.

PESTICIDES: "Lawn Care Chemicals: What Consumers Should Know," booklet, 75 cents plus $3 handling per 25 copies; PLCAA, 1225 Johnson Ferry Rd., Suie B-220, Marietta, GA 30068.

PESTICIDES: "Working with Pesticides," two videos, $149.95; The Idea Bank, P.O. Box 23994, Tempe, AZ 85282.

PESTICIDES: "The 1987 Pesticide Directory," book, $75; Thomson Publications, P.O. Box 9335, Fresno, CA 93791.

PESTICIDES: "1987 Newly-Revised Insecticide, Herbicide, Fungicide Quick Guide," book, $14.50; Thomson Publications, P.O. Box 9335, Fresno, CA 93791.

PESTICIDES: "Working with Pesticides" videotape; more information from Direct Safety Co., 7815 S. 46th St., Phoenix, AZ 85044.

PESTICIDES: "Tree, Turf and Ornamental Pesticide Guide," $14.00 plus tax; Thomson Publications, P.O. Box 9335, Fresno, CA 93791.

PLANTS: "A Handbook of Annuals and Bedding Plants," 273 pages, $24.95; Timber Press, 9999 S.W. Wilshire, Portland, OR 97225.

PLANTS: "The Complete Book of Woody Ornamental Plants," book, $23; H.G. Inc., P.O. Box 640, Piqua, OH 45356.

PLANTS: "Manual for Plant Appraisers," book, $30.00; Ohio Chapter, ISA, The Dawes Arboretum, 7770 Jacksontown Rd. SE, Newark, OH 43055.

PLANTS: "Hortus Third" by John Seeley, 1,034 pages, $99.50; MacMillan Publishing, 100 H Brown St., Riverside, NJ 08075.

PLANTS: "Production of Landscape Plants" and "Establishment and Maintenance of Landscape Plants" by Carl Whitcomb, 480 pages and 618 pages respectively, $28.00 each; Lacebark Publications, Route 5, Box 174, Stillwater, OK 74074.

PLANTS: Nursery/Landscape Plant Identification cards (116-card set), $40; University of Illinois, Vocational Agriculture Service, College of Agriculture, 1401 S. Maryland Dr., Urbana, IL 61801.

PLANTS: "Improving the Quality of Urban Life with Plants," book, $21.25; Amy King, Institute of Ecosystems Studies, Cary Arboretum, Box AB, Millbrook, NY 12545.

PLANTS: "The Reference Manual of Woody Plant Propagation" by Michael A. Dirr and Charles W. Heuser Jr., 240 pages, $31.85; Varsity Press, 1240 Hollow Creek Lane, Watkinsville, GA 30677.

SAFETY: "Fire Safety," VHS videotape, $60; Lisa M.K. Zetterberg, 6650 Belleau Wood Lane #209, Sacramento, CA 95822.

SAFETY: "Accident Prevention" and "Pesticide Application Techniques" videotapes; more information from National Arborist Association, 174 Route 101, Bedford, NH 03102.

SAFETY: Products for safety, 44 pages, catalog supplement, free; Direct Safety Co., 7815 S. 46th St., Phoenix, AZ 85044.

TREES: "The Tree Worker's Manual," $7; Ohio Agricultural Education Curriculum Materials Service, Room 254, 2120 Fyffe Rd., Ohio State University, Columbus, OH 43210-1099.

TREES: "Arboriculture" by Richard W. Harris, 680 pages; more information from Prentice-Hall, Englewood Cliffs, NJ 07632.

TREES: "On Target" (tree spraying), 3 videotapes, $150 NAA members, $300 non-members; National Arborist Association, 174 Route 101, Bedford, NH, 03102.

TREES: "Pruning Your Own Shrubs and Small Trees," 51-minute videotape, $37.95; Agricultural Communications Center, University of Idaho, Moscow, ID 83843.

TREES: "Professional Tree Care Safety," 4 videotapes, $200 NAA members, $400 non-members; National Arborist Association, 174 Route 101, Bedford, NH 03102.

TREES: "A New Tree Biology," by Dr. Alex Shigo, 597 pages, $48.50; Arborist Supply House, P.O. Box 23607, Ft. Lauderdale, FL 33307.

TREES: "A New Tree Biology Dictionary," by Dr. Alex Shigo, 132 pages, $12.50; Arborist Supply House, P.O. Box 23607, Ft. Lauderdale, FL 33307.

TURFGRASS: "Lawns" by Jonas Vengris, Ph.D. and William A. Torello, Ph.D., 240 pages, $15.50; Thomson Publications, P.O. Box 9335, Fresno, CA 93791.

TURFGRASS: "Turfgrass for Lawn Care," "Turfgrass for Golf Courses," 2 videotapes, $20 each; Lofts Inc., Research Dept., P.O. Box 146, Bound Brook, NJ 08805.

TURFGRASS: "Turfgrass Management, Revised Edition" by A.J. Turgeon; more information from Reston Publishing, c/o Prentice-Hall, Book Distribution Center, Route 59 at Brook Hill Drive, West Nyack, NY 10994.

WATER: "Turfgrass Water Conservation," book, $10; Cooperative Extension, UC-ANR Publications, 6701 San Pablo Ave., Oakland, CA 94608-1239.

WATER: "Water Quality Reference Guide," 8 pages, free; Water Management People, Aquatrols Corp., 1432 Union Ave., Pennsauken, NJ 08110.

WEEDS: Weed identification fact sheets, 16 pages, $5; Publications Distribution Center, 112 Agricultural Administration Bldg., University Park, PA 16802.

WEEDS: "Weed Control Manual," book, $23 + $2 postage and handling; Meister Publishing, 37841 Euclid Ave., Willoughby, OH 44094.

WEEDS: "How to Identify and Control Water Weeds and Algae," 108 pages, $6.95; Applied Biochemists, 5300 W. County Line Rd., Mequon, WI 53092.

WEEDS: "Nursery and Landscape Weed Control Manual" by Robert P. Rice Jr., book, $19.95, Thomson Publications, P.O. Box 9335, Fresno, CA 93791.

MISCELLANEOUS: "Careers in a Growing Industry," free; Elaine Thompson, California Association of Nurserymen, 1419 21st St., Sacramento, CA 95814.

MISCELLANEOUS: "Careers in the Landscape-Horticulture Industry," 20-minute videotape, $79; The Idea Bank, 1000 E. Apache Blvd., Suite 211, Tempe, AZ, 85281 or California Landscape Contractors Association, 2226 K St., Sacramento, CA 95816.

MISCELLANEOUS: Buyer's guide, brochure, free; Western Wood Preservers Institute, 5830 Oberlin Dr., San Diego, CA 92121. **LM**

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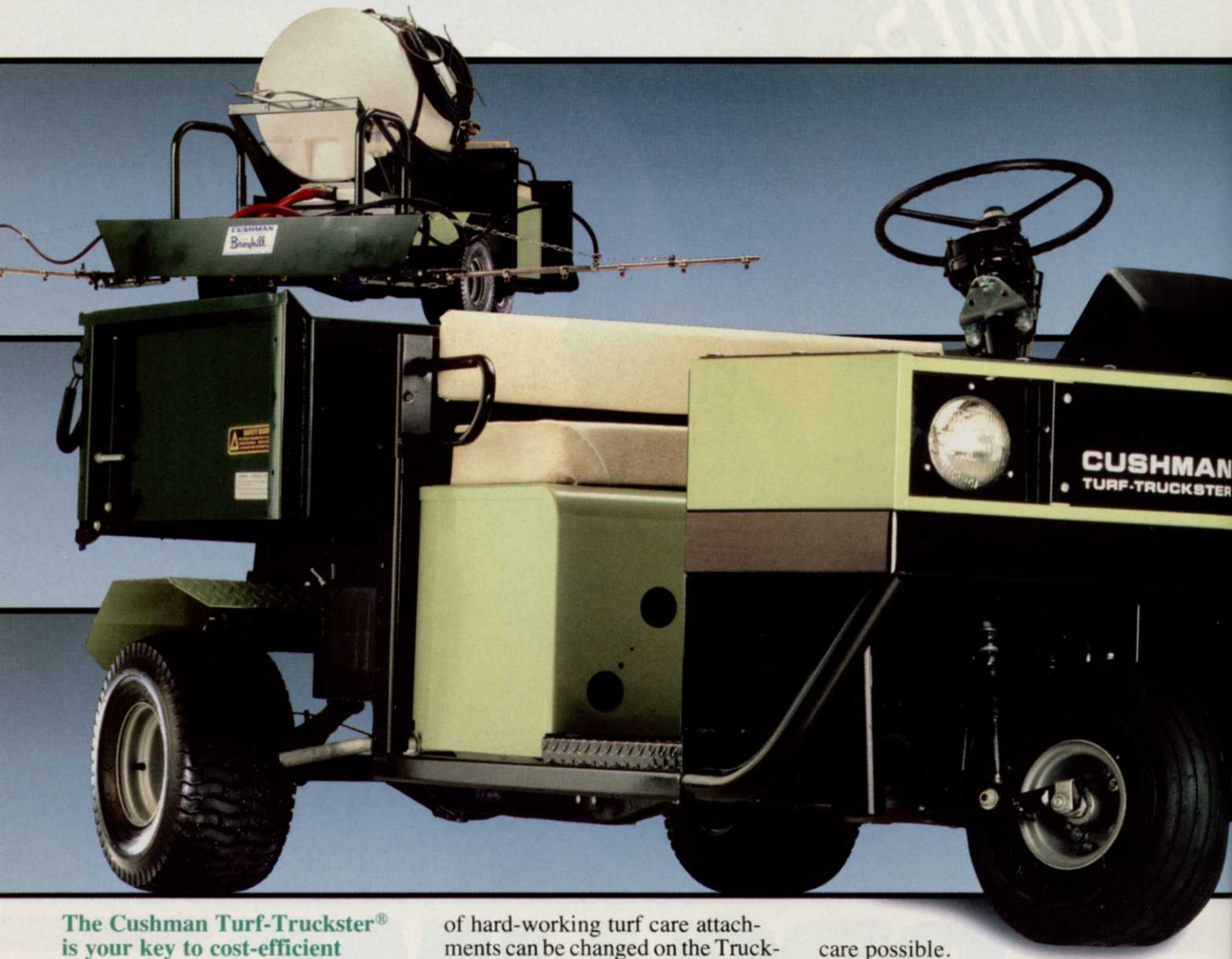

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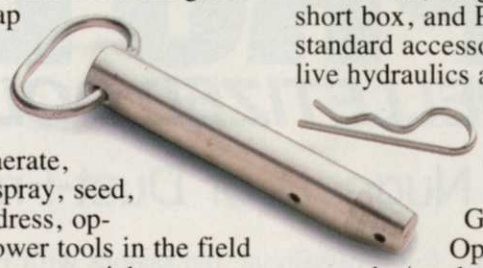

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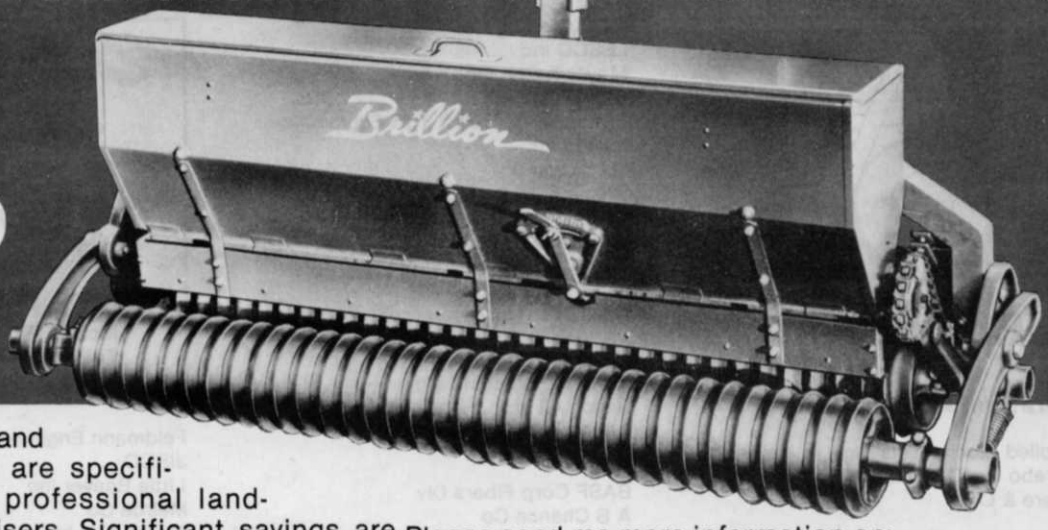

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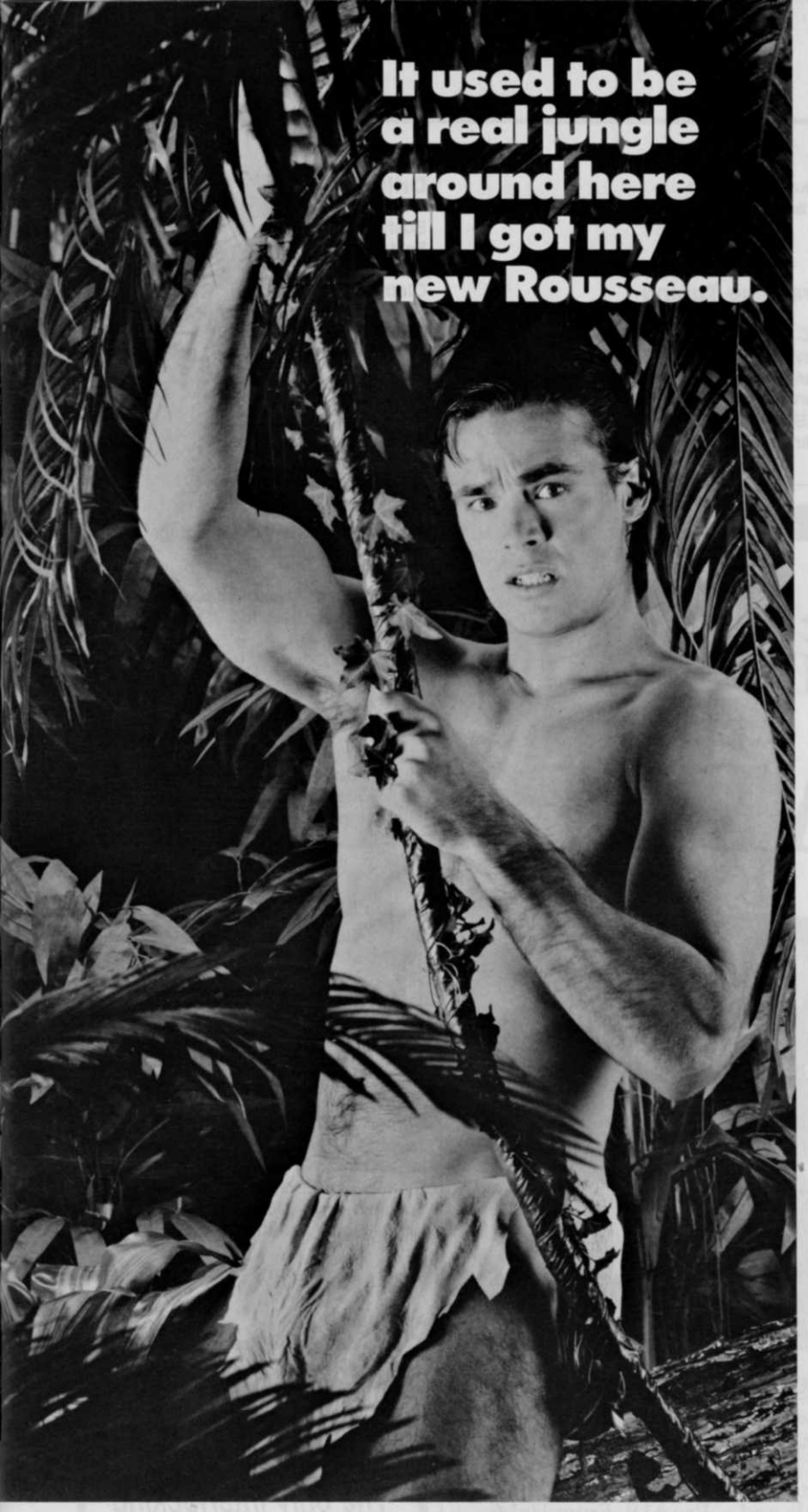
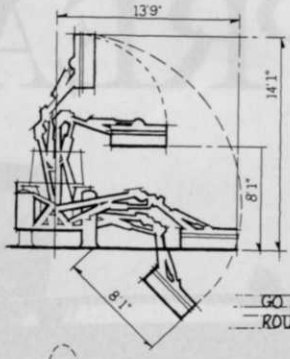
Hahn Inc
Hoffco Inc
Howard Rotavator Co
Jacobsen Div

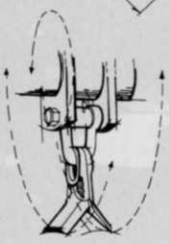


You have to see it to believe it... nothing, but nothing cuts through everything like a new Rousseau.

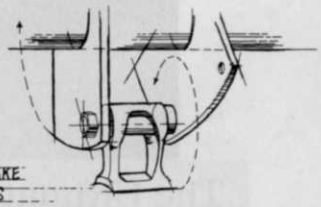
Words won't do it. You have to come to a Rousseau field demonstration yourself. And watch our big, complete line of mowing, trimming and clearing equipment in action. Call us now. Rousseau is going to change your mind.



GO ANYWHERE.
ROUSSEAU HAS THE REACH.

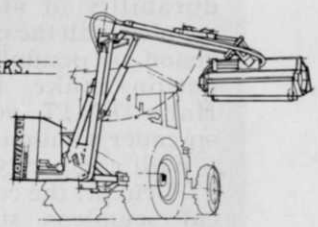


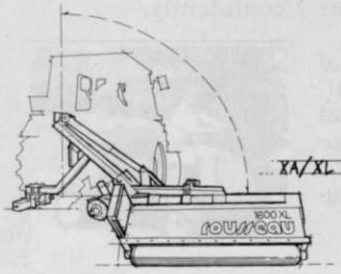
FORGED STEEL BLADES – BEST EVER IN GRASS OR LIGHT BRUSH.



HEAVY DUTY BLADES MAKE SHORT WORK OF YEARS OF UNCUT GROWTH.

M-SERIES ARM MOWERS.





XA/XL MULTI-KNIFE MOWERS.

rousseau

Because it's a real jungle out there.

Rousseau Inc. 8433 Mid-County Industrial Drive
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Circle No. 164 on Reader Inquiry Card

continued

F D Kees Mfg Co
Kinco Mfg
LESCO Inc
Olathe Mfg Inc
R L Parsons & Son
Roseman Co
Salsco Inc
Yard Vac Products Inc

Dozers

Bomford & Evershed Ltd
Deere & Co
Deutz-Allis Corp
Grasshopper Co

Drainage Tubing

A C F Inc
Advanced Drainage Systems Inc
Cambridge Soil Services of America Inc
Hancor Inc
LESCO Inc
Warren's Turf Nursery Inc

Drills

Bush Hog
Feldmann Engineering & Mfg Co
JISCO
Olathe Mfg Inc
Stanley Hydraulic Tools
Strong Enterprises Inc
Tanaka Kogyo (USA) Co Ltd

Dusters

B & G Equipment Co
Encap Products Co
Green Machine
Maruyama US Inc
Professional Tree & Turf Equipment
D B Smith & Co
Solo Inc
Southern Mill Creek Products Co
Strong Enterprises Inc
Trebor Corp
Westheffer Co

Edgers

Ames Co
Bunton Co
Earl J Crane Inc & Assocs
Curb King

CURB-KING
FIRST IN LANDSCAPE EDGING
CURB KING-Continuous concrete landscape borders. Low investment and high returns. **(303) 434-5337**

Deere & Co
Excel Industries Inc
Green Machine
Hoffco Inc
Homelite Div
Jacobsen Div
LESCO Inc
Steiner Turf Equipment Inc
Tanaka Kogyo (USA) Co Ltd
Wheel Horse Products Inc

Edging, Lawn

A C F Inc
Earl J Crane Inc & Assocs
Deere & Co
Eberhart Steel Products Plastic Div

Hahn

The HAHN Pendulum Action SPREADER

The Ultimate In Precise Fertilizer Application

The strength and durability of steel coupled with the precision of pendulum action make the Hahn PA-17 your spreader solution.

With a capacity of 17.1 cu. ft., the conical seamless steel hopper ensures free flow of all materials... fertilizers, seed, lime or sand.

Infinite arc adjustment and multiple flow settings allow you to calibrate the PA-17 accurately and confidently.

Available for 3-point hitch mounting or as an attachment for the Hahn Multi-Pro 418. From Hahn, the leaders in application equipment.

For a free demonstration call your nearest distributor or: 1-800-457-HAHN in Indiana 812-428-2020

Hahn
1625 N. Garvin Evansville, IN 47711

EDGELOCK—

The only interlocking lawn edging system

EBERHART STEEL PRODUCTS
PLASTICS DIVISION
417 E. Jefferson Blvd.
MISHAWAKA, INDIANA 46544
219-259-2461 800-437-4780

Circle No. 125 on Reader Inquiry Card

WHEN IT DOESN'T COME WITH A HONDA, YOU CAN KEEP IT GOING WITH ONE.

And the reasons to keep it going with a Honda are as plentiful as they are persuasive.

For starters, our line of Overhead Valve engines use substantially less fuel and oil than comparable side valve engines. And they're especially easy starting, thanks to Automatic Decompression and a maintenance-free electronic ignition.

Almost all of our engines feature Honda's Oil Alert,™ which automatically shuts off the engine before the oil drops below a safe operating level.

And we have replacement engines for all kinds of equipment. Our line includes horizontal and vertical shaft models from 2.2 to 13.0 horsepower.

All of which should persuade you there's not only reason to keep your used equipment running, there's a way to keep it running better than new.

IT'S A HONDA HONDA Power Equipment **Engines**

For optimum performance and safety, we recommend you read the owner's manual before operating your Honda Power Equipment. © 1986 American Honda Motor Co., Inc.

Circle No. 126 on Reader Inquiry Card

continued

Oly-Ola Sales Inc
Turfco Mfg Inc

Engine Parts

Briggs & Stratton Corp
Earl J Crane Inc & Assocs
Cushman
DOB Distributors Inc
Kohler Engine Div
LESCO Inc
Olathe Mfg Inc
Onan Corp
Power Lawnmower Parts Inc
Professional Tree & Turf Equipment
Strong Enterprises Inc
Tecumseh Products Co
Teledyne Total Power

Engines

Briggs & Stratton Corp
Earl J Crane Inc & Assocs
Cushman
Deere & Co
DOB Distributors Inc
Honda Power Equipment
Kawasaki Motors Corp USA Engine Div
Kohler Engine Div

KOHLER engines
MAGNUM & COMMAND
Vertical and Horizontal
Shaft Engines 4-23 HP

LESCO Inc
Onan Corp
Professional Tree & Turf Equipment
Professional Turf Mfg
Strong Enterprises Inc
Tecumseh Products Co
Teledyne Total Power

Erosion Control Blocks

A C F Inc
Eberhart Steel Products Plastic Div
Presto Products Inc

Erosion Control Fabric

A C F Inc
Akzo Industrial Systems Co
Atlantic Construction Fabrics Inc
BASF Corp Fibers Div
Conwed Fibers
Dewitt Co
E I DuPont de Nemours & Co
Exxon Chemical Americas
Hoechst Celanese Corp
North American Green Inc
Reemay Inc
Warren's Turf Nursery Inc
Weyerhaeuser Co

Fertilizer Injectors

Agrotec Inc
Doggett Corp
Inject-O-Meter Mfg Co
LESCO Inc
J J Mauget Co
Nature's Touch
Professional Tree & Turf Equipment
Smith Precision Products
Vaughan's Seed Co
Westheffer Co

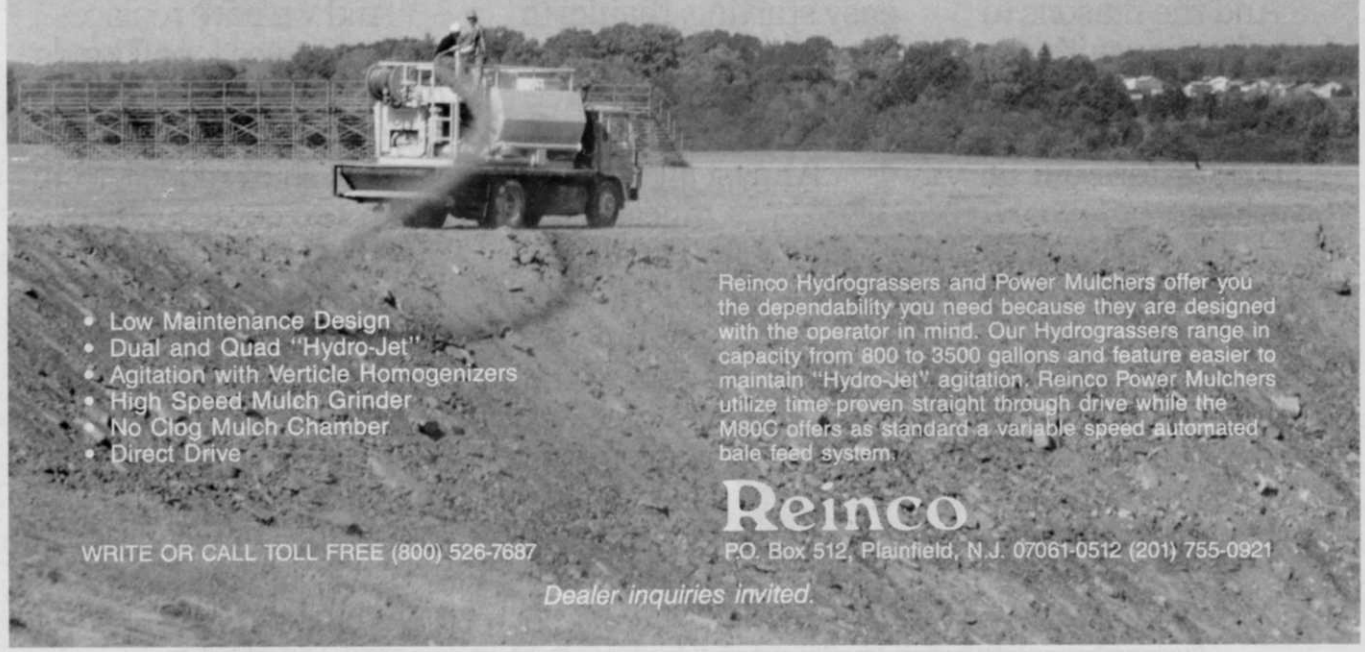
Filters, Sand

Claude Laval Corp

Foggers

B & G Equipment Co
D B Smith & Co
Southern Mill Creek Products Co

The Growing Choice
Hydrograssers & Power Mulchers



• Low Maintenance Design
• Dual and Quad "Hydro-Jet" Agitation with Verticle Homogenizers
• High Speed Mulch Grinder
• No Clog Mulch Chamber
• Direct Drive

Reinco Hydrograssers and Power Mulchers offer you the dependability you need because they are designed with the operator in mind. Our Hydrograssers range in capacity from 800 to 3500 gallons and feature easier to maintain "Hydro-Jet" agitation. Reinco Power Mulchers utilize time proven straight through drive while the M80C offers as standard a variable speed automated bale feed system.

Reinco
P.O. Box 512, Plainfield, N.J. 07061-0512 (201) 755-0921

WRITE OR CALL TOLL FREE (800) 526-7687

Dealer inquiries invited.

Circle No. 162 on Reader Inquiry Card

Here's proof that Typar Pro Landscape Fabric is easier to install.

We cut this piece of Typar® Pro Landscape Fabric to show what you can't do with the others.

Like cut quick slits for plants to pass through. Or fast curves that follow landscaped contours.

Typar is easily cut, lightweight and less bulky. So it's faster and cheaper for you to install.

And it's surprisingly tougher. With rugged polypropylene fibers that resist tearing, even under stones, gravel, patios and sidewalks. Typar is also porous, so air, water and nutrients can pass right through. Your landscaping projects look healthy as well as handsome.

So save time and labor while you control weeds, drainage, soil erosion, and heaving of walks and patios.

Get Typar Pro Landscape Fabric.

And start cutting corners the easy way.

TYPAR® Landscape Fabric

FOR PROFESSIONALS

REEMAY
a member of The Interfech Group, Inc.

Circle No. 161 on Reader Inquiry Card

continued

Forklifts
Bomford & Evershed Ltd
Brouwer Turf Equipment Ltd
Deere & Co
Raymond Corp
Teledyne Princeton
Waldon Inc

Generators
Earl J Crane Inc & Assocs
Howard S Crane Inc
Deere & Co
Dyna/ENERGX Corp
Fairmont Hydraulics
Homelite Div
Honda Power Equipment
Kohler Engine Div
Kubota Tractor Corp
Onan Corp
Shindaiwa Inc
Tanaka Kogyo (USA) Co Ltd
Winco/Energx Corp

Geotextiles
A C F Inc
Advanced Drainage Systems Inc
BASF Corp Fibers Div
Dewitt Co
Exxon Chemical Americas
Phillips Fibers Corp
Reemay Inc
Warren's Turf Nursery Inc

Golf Cars
Club Car Inc
Columbia Parcar Corp
E-Z-GO Textron
Melex USA Inc
Noland Car Co
Professional Turf Mfg
Trojan Battery Co

Golf Course Accessories
J A Cissel Mfg Co
Earl J Crane Inc & Assocs

OUTDOOR PRODUCTS & SUPPLY, INC.

.....

Manufacturer of Golf Course Products

.....

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Cleveland Heights, OH 44121
1-800-331-7907 — National
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FXG Corp
LESCO Inc
Outdoor Products & Supply Inc
Salsco Inc
Standard Golf Co
Vaughan's Seed Co

Grass Pavers
Presto Products Inc

Hose & Reels
Agrotec Inc
Ames Co
Arborchem Products Co
Bowie Industries Inc
Broyhill Co
Encap Products Co
Falkenberg
Friend Mfg Corp
Hannay Reels
Kuker Industries
LESCO Inc
Professional Tree & Turf Equipment
Professional Turf Mfg
Southern Mill Creek Products Co
Spraying Devices Inc
Strong Enterprises Inc
Tuflex Mfg Co
Westheffer Co

Irrigation Systems & Supplies
AMETEK Inc/Plymouth Products Div
Bloch & Co

PIPE LOCATOR

THE LOCAT, inexpensive pipe locator, locates, traces underground drain lines consisting of clay, PVC, ABS, steel culvert, orangeburg, and cement. THE LOCAT finds PVC and steel water service lines along with buried metal and plastic sprinklers and plastic valve boxes, clogs in lines.

BLOCH AND COMPANY
P.O. Box 18058, Cleveland, OH 44118
(216) 371-0979

Buckner Irrigation
Earl J Crane Inc & Assocs
Franklin Electric
Gardenamerica
Hunter Industries
Kalo Inc
LESCO Inc
Motorola Control Systems
Nalco Chemical Co
Outdoor Products & Supply Inc
Pierce Corp
Progressive Electronics Inc
Rain Bird Sales Inc
Standard Oil Engineered Materials Co
Toro Co
Toro Co Irrigation Div
Weather-matic

Lighting Systems
Rain Bird Sales Inc

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GET SERIOUS ABOUT HYDRO-MULCHING

Bowie Industries invented the Hydro-Mulcher.® And whether you specialize in large or small projects, Bowie makes a Hydro-Mulcher that will save you money. The Bowie Victor 800 is ideal for lawn and landscape jobs.

Like all our equipment, the Victor 800 is built Bowie tough for long, trouble-free service. Its 800 gallon tank can easily spread 350 pounds of mulch over 8,000 square feet in one application. The Bowie Victor 800 is equipped with a built-in shredder bar, and uses twin agitators to keep slurry homogeneous. Call or write Bowie today. We make serious equipment for serious landscapers.

BOWIE INDUSTRIES, INC.
P.O. Box 931, Bowie, Texas 76230
Toll-Free: 1-800-433-0934 ■ In Texas: 1-817-872-2286 ■ Telex: 887844

"I SWITCHED TO RAIN BIRD... Because Life's Too Short!"

"I had tremendous problems with my other system. Now, MAXI®-ET is as close to having my own custom control system as there is. It didn't take long to see that the satellite is far superior to the other system. And the central unit is light years ahead of it, too.

"And, there's a big difference in flexibility. MAXI-ET doesn't tie you down to a closed set of parameters. MAXI-ET can solve many problems in irrigation by letting the superintendent use all the innovative tools available to him and letting him make the decisions.

"MAXI-ET is dependable. It works. Repair and maintenance is as much as 3 to 4 times lower per year.

"After installing the MAXI-ET system, we also changed all 27 greens, 5 tees, and 2 fairways to Rain Bird's 51DR rotors and they're here to stay! I'd say we'll save $3,000 to $4,000 in repair and labor this year by switching to the DR rotor.

"I highly recommend the Rain Bird system to anyone, anywhere!"

Gregory W. Graham

Gregory W. Graham, Golf Course Superintendent
The Tucson National Resort and Spa, Tucson, Arizona

Make Rain Bird your first choice.

See for yourself how this complete irrigation and environmental management system with a state-of-the-art, on-site weather station will save you time, energy, money *and* headaches. Remember, life's too short.

Ask your distributor about convenient Rain Bird financing.

RAIN BIRD®

Rain Bird Sales, Inc., Golf Division
145 North Grand Avenue, Glendora, CA 91740

Circle No. 160 on Reader Inquiry Card

continued

Litter Receptacles

Friend Mfg Corp
Landscape Structures Inc
LESCO Inc
Outdoor Products & Supply Inc
Playworld Systems
Standard Golf Co

Loaders

American Trencher Inc
Atwater Strong Inc
Bomford & Evershed Ltd
Bush Hog
J I Case Outdoor Power Equipment Div
Howard S Crane Inc
Deere & Co
Deutz-Allis Corp
Engineering Products Co
Ford New Holland Inc
Ingersoll Equipment Co
Kubota Tractor Corp
Massey-Ferguson Inc
Melroe Co
Salsco Inc
Steiner Turf Equipment Inc
Strong Mfg Co
Vermeer Mfg Co
Waldon Inc
Westendorf Mfg Co

Loading Ramps

American Road Equipment Co
Giant-Vac Mfg Inc
Magline Inc
Melcher Mfg Co
Salsco Inc

Log Splitters

Bush Hog
J I Case Outdoor Power Equipment Div
Didier Log Splitters
FXG Corp
Giant-Vac Mfg Inc
Ingersoll Equipment Co
Mid Dakota Corp
Morbark Industries Inc
Promark Products Inc
Vermeer Mfg Co

Markers, Field

Kuker Industries
Outdoor Products & Supply Inc
Precision Laboratories Inc
Richway Industries Ltd

Measuring Wheels

Gandy Co
Imler Industries Inc
LESCO Inc
Professional Tree & Turf Equipment
Professional Turf Mfg
Strong Enterprises Inc
Westheffer Co

Mist Blowers

Agrotec Inc
Howard S Crane Inc
Friend Mfg Corp
Green Machine
Homelite Div
Maruyama US Inc
Solo Inc
Strong Enterprises Inc
Tanaka Kogyo (USA) Co Ltd
Trebor Corp
Westheffer Co

Moisture Sensors

Rain Bird Sales Inc

Mower Accessories

Bolens Corp
Bunton Co
Earl J Crane Inc & Assocs
Cushman
Danville Industries
Deere & Co
Deutz-Allis Corp
Excel Industries Inc
Grasshopper Co
LESCO Inc
M & W Gear Co
Olathe Mfg Inc
R L Parsons & Son
Power Lawnmower Parts Inc
Scag Power Equipment Inc
Simplicity Mfg Inc
Snapper Power Equipment

Mower Parts

Bolens Corp
Earl J Crane Inc & Assocs
Cushman
Dandl Mfg Co
Deere & Co
Deutz-Allis Corp
Lawnboy Product Group
LESCO Inc
MoTrim Inc
R L Parsons & Son
Power Lawnmower Parts Inc
Ransomes Inc
Snapper Power Equipment

Mowers, Flail

Bomford & Evershed Ltd
Brillion Iron Works Inc
Bush Hog
Howard S Crane Inc
Cushman
Dandl Mfg Co
Deere & Co
Excel Industries Inc
Goossen Industries
Gravely Intl Inc
Jacobsen Div
Mathews Co
Middlesworth Engineering & Mfg Inc
MoTrim Inc
Mott Corp
R L Parsons & Son
Rousseau
Toro Co
Woods Div
Yazoo Mfg Co

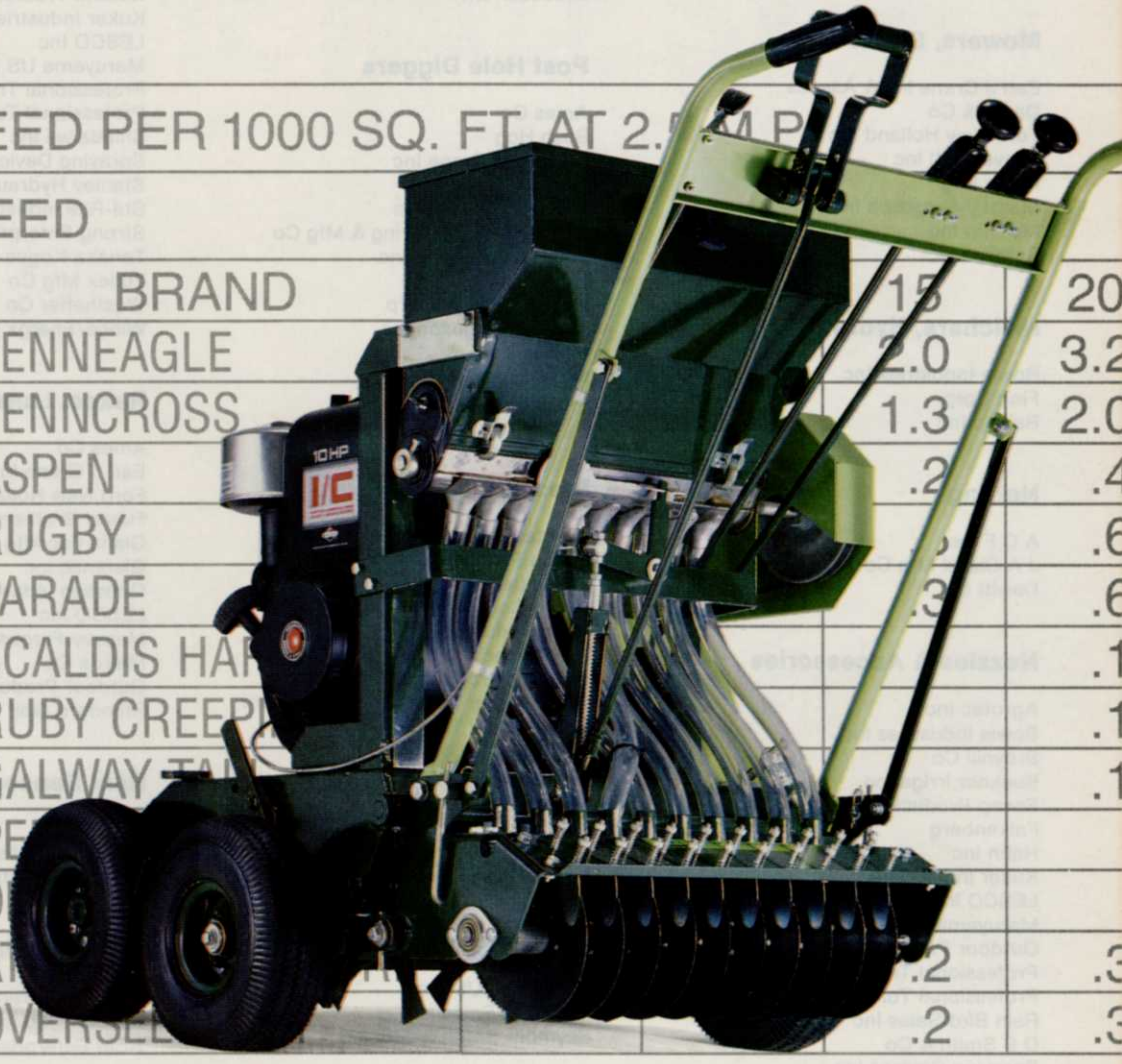
Mowers, Reel

Brouwer Turf Equipment Ltd
Bunton Co
Earl J Crane Inc & Assocs
Deere & Co
Jacobsen Div
LESCO Inc
Locke Mfg Inc
National Mower Co
R L Parsons & Son
Howard Price Turf Equipment
Ransomes Inc
Roseman Co
Steiner Turf Equipment Inc
Toro Co

Mowers, Rotary

Ariens Co
Bolens Corp
Brouwer Turf Equipment Ltd
Bunton Co
Bush Hog
J I Case Outdoor Power Equipment Div
Earl J Crane Inc & Assocs
Howard S Crane Inc
Cushman
Deere & Co
Deutz-Allis Corp
DewEze Mfg Inc
Dixon Industries Inc
Excel Industries Inc
Exmark Mfg Co
Ford New Holland Inc
Giant-Vac Mfg Inc
Grasshopper Co
Gravely Intl Inc
Grazer Div
Heckendorn Mfg Co
Homelite Div
Honda Power Equipment
Ingersoll Equipment Co
Jacobsen Div
F D Kees Mfg Co
Kubota Tractor Corp
Kut-Kwick Corp
Lawnboy Product Group
LESCO Inc
Magic Circle-Dixie Chopper
M & W Gear Co
Massey-Ferguson Inc
Middlesworth Engineering & Mfg Inc
MoTrim Inc
Howard Price Turf Equipment
Ransomes Inc
Sarlo Power Mowers Inc
Scag Power Equipment Inc
Sensation Div
Simplicity Mfg Inc
Snapper Power Equipment
Solo Inc
Steiner Turf Equipment Inc
Toro Co
Vicon Farm Machinery Inc

The art of application for maximum germination.



POUNDS OF SEED PER 1000 SQ. FT. AT 2.[illegible] M P[illegible]					
	SEED				
TYPE	BRAND			15	20
BENTGRASS	PENNEAGLE			2.0	3.2
	PENNCROSS			1.3	2.0
KENTUCKY BLUEGRASS	ASPEN			.2	.4
	RUGBY				.6
	PARADE			.3	.6
FESCUE	SCALDIS HA[illegible]				.1
	RUBY CREEP[illegible]				.1
	GALWAY TA[illegible]				.1
RYEGRASS PERENNIAL	PE[illegible]				
	D[illegible]				
MIXTURE	AT[illegible]			.2	.3
	OVERSEE[illegible]			.2	.3

The Ryan® Mataway® Overseeder is simply better.

Better results begin with the basics, like seed calibration. An easy-to-read chart on the Mataway Overseeder tells you the exact setting for pounds of seed needed per 1,000 sq. ft. Just look it up, load it up, select setting, and you're ready to go.

Two-inch spacing between rows gives you a dense pattern for one-pass application. Gandy® precision metering and an easily removed disc-type seed delivery system places the seed directly into the slits for uniform seed/soil contact allowing maximum germination.

The result is a lusher, thicker lawn.

The Ryan Mataway Overseeder gives you the flexibility to power rake, overseed, or to do both at the same time. Call today or contact your nearest Ryan dealer for more information and a free test drive demonstration.

Call toll free 1-800-228-4444 for all the details.

RYAN®

BUILT TO LAST

6191 Ryan, P.O. Box 82409, Lincoln, NE 68501

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Circle No. 110 on Reader Inquiry Card

continued

Walker Mfg Co
Woods Div
Yazoo Mfg Co

Mowers, Sickle Bar

Earl J Crane Inc & Assocs
Deere & Co
Ford New Holland Inc
Gravely Intl Inc
Kinco Mfg
Massey-Ferguson Inc
MoTrim Inc
Solo Inc

Mulchers, Hydraulic

Bowie Industries Inc
Finn Corp
Reinco Inc

Netting

A C F Inc
J A Cissel Mfg Co
Dewitt Co

Nozzles & Accessories

Agrotec Inc
Bowie Industries Inc
Broyhill Co
Buckner Irrigation
Encap Products Co
Falkenberg
Hahn Inc
Kuker Industries
LESCO Inc
Maruyama US Inc
Outdoor Products & Supply Inc
Professional Tree & Turf Equipment
Professional Turf Mfg
Rain Bird Sales Inc
D B Smith & Co
Spraying Devices Inc
Strong Enterprises Inc
Toro Co Irrigation Div
Weather-matic
Westheffer Co

Picnic Tables

American Playground Co
Playworld Systems

Pipe

LESCO Inc
Professional Turf Mfg

Play Structures

American Playground Co
BigToys
Landscape Structures Inc
Playworld Systems

Plows, Sand Trap

Dedoes Industries Inc
Jacobsen Div

Post Hole Diggers

Ames Co
Bush Hog
Howard S Crane Inc
Deere & Co
Fairmont Hydraulics
Feldmann Engineering & Mfg Co
Ford New Holland Inc
Hoffco Inc
Kubota Tractor Corp
Massey-Ferguson Inc
Melroe Co
Mid Dakota Corp
Seymour Mfg Co

Pressure Gauges

Agrotec Inc
Encap Products Co
Falkenberg
Hypro Corp
Kuker Industries
LESCO Inc
Outdoor Products & Supply Inc
Professional Tree & Turf Equipment
Professional Turf Mfg
Spraying Devices Inc
Strong Enterprises Inc
Tuflex Mfg Co
Westheffer Co

Pruners, Hedge

Ames Co
DOB Distributors Inc
LESCO Inc
Maruyama US Inc
Rain Bird Sales Inc
Seymour Smith & Son Inc

Pruners, Tree

Ames Co
Fairmont Hydraulics
Fanno Saw Works
Friend Mfg Corp
Green Machine
LESCO Inc
Rain Bird Sales Inc
Seymour Smith & Son Inc
Stanley Hydraulic Tools

Pumps

Agrotec Inc
Barebo Inc/Otterbine
Berkeley Pumps
Bowie Industries Inc
Broyhill Co
Earl J Crane Inc & Assocs
Falkenberg
Friend Mfg Corp
Homelite Div
Honda Power Equipment
Hypro Corp
Kubota Tractor Corp
Kuker Industries
LESCO Inc
Maruyama US Inc
Professional Tree & Turf Equipment
Professional Turf Mfg
Shindaiwa Inc
Spraying Devices Inc
Stanley Hydraulic Tools
Sta-Rite Industries Inc
Strong Enterprises Inc
Tanaka Kogyo (USA) Co Ltd
Tuflex Mfg Co
Westheffer Co
Winco/Energx Corp

Rakes, Landscape

Ames Co
Earl J Crane Inc & Assocs
Ford New Holland Inc
Fuerst Brothers Inc
Giant-Vac Mfg Inc
Glenmac Inc
Goossen Industries
LESCO Inc
Massey-Ferguson Inc
Melroe Co
Outdoor Products & Supply Inc
Standard Golf Co

Rain Sensors

LESCO Inc
Rain Bird Sales Inc
Toro Co Irrigation Div

Rock Pickers

Howard S Crane Inc
Glenmac Inc
KEM Enterprises Inc

Rollers, Lawn

Ames Co
Brinly-Hardy Co
Brouwer Turf Equipment Ltd
Cushman
Deere & Co
Gandy Co

Rope

Allied Products Inc
LESCO Inc
Outdoor Products & Supply Inc
Power Lawnmower Parts Inc
Standard Golf Co

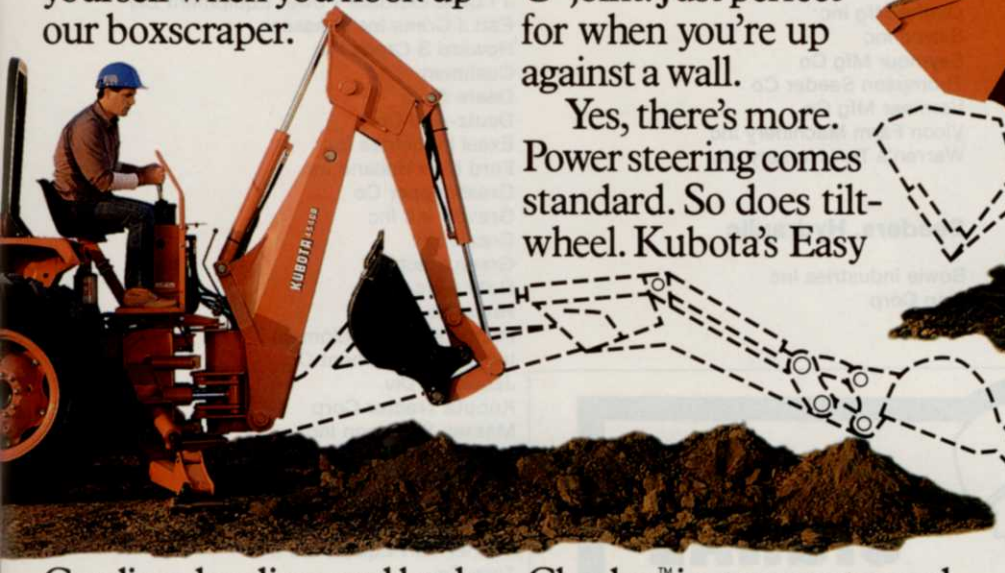
Safety Wear & Equipment

Encon Safety Products
LESCO Inc
3M Occupational Health & Safety Products Div

ONE TRACTOR TELLS THE HOLE STORY.

With its 50 horsepower engine, 8 forward and 8 reverse speeds, the Kubota L4150 doesn't miss a trick.

Of course, you'll see for yourself when you hook up our boxscraper.



Grading, leveling, and backfilling tasks are no problem for the rugged 5-cylinder L4150. And breaking up the earth's surface won't be very hard to do either.

That's just the beginning. Check out our backhoe and you'll find the L4150 does a big job even in small spaces. Kubota's own bevel gear system on the four-wheel-drive model makes for tighter, smoother turns than your basic U-joint. Just perfect for when you're up against a wall.

Yes, there's more. Power steering comes standard. So does tilt-wheel. Kubota's Easy Checker™ instrument panel is logical and legible. Opt for the hydraulic shuttle-shift transmission and you won't have to clutch when you're changing direction. Saves time, saves energy.

We're known for our innovative, efficient direct-injection diesel engines. What that means is you can keep your eyes on the front loader, not the fuel gauge.

And every Kubota is still made by Kubota for easy servicing.

If your idea of a workhorse does more than scratch the surface, write us for more information: Kubota Tractor Corp., P.O. Box 7020-A, Compton, CA 90224-7020.

KUBOTA®

Nothing like it on earth.™

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Outdoor Products & Supply Inc
Precision Laboratories Inc
Professional Tree & Turf Equipment

Saws

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Fanno Saw Works
Green Machine
Progressive Power Tools Corp
Seymour Smith & Son Inc
Tanaka Kogyo (USA) Co Ltd

Scrapers

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Lindig Mfg Corp
Royer Foundry & Machine Co

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Brillion Iron Works Inc
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Bolens Corp
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Earl J Crane Inc & Assocs
Howard S Crane Inc
Cushman
Deere & Co
Deutz-Allis Corp
Excel Industries Inc
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Massey-Ferguson Inc
Olathe Mfg Inc
Simplicity Mfg Inc
Snapper Power Equipment
Solo Inc
Steiner Turf Equipment Inc
Toro Co
Waldon Inc
Wheel Horse Products Inc

Snow Plows

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Bomford & Evershed Ltd
J I Case Outdoor Power Equipment Div
Deere & Co
Deutz-Allis Corp
Excel Industries Inc
Gravely Intl Inc
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Outdoor Products & Supply Inc
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Outdoor Products & Supply Inc
Terracare Products Co

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LESCO Inc
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Broyhill Co
Encap Products Co
Falkenberg
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Hahn Inc
Kuker Industries
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Master Mfg Co
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Professional Turf Mfg
Southern Mill Creek Products Co
Spraying Devices Inc
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Wheel Spray Corp

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Turf & Grounds Equipment

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Grasshopper Co
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Grazer Div
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Olathe Mfg Inc
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Arborchem Products Co
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Friend Mfg Corp
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Professional Turf Mfg
Raven Industries Inc
Southern Mill Creek Products Co
Spraying Devices Inc
Strong Enterprises Inc
Tuflex Mfg Co
Westheffer Co

Tanks, Metal

Agrotec Inc
Arborchem Products Co
B & G Equipment Co
Friend Mfg Corp
Great Northern Equipment Co
LESCO Inc
Professional Tree & Turf Equipment
Professional Turf Mfg
Southern Mill Creek Products Co
Westheffer Co

Tanks, Polyethylene

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Arborchem Products Co
B & G Equipment Co
Broyhill Co
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Professional Tree & Turf Equipment
Professional Turf Mfg
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Westheffer Co

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Feldmann Engineering & Mfg Co
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Hoffco Inc
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Honda Power Equipment
Ingersoll Equipment Co
Kubota Tractor Corp
Kuhn Farm Machinery Inc
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Snapper Power Equipment
Toro Co

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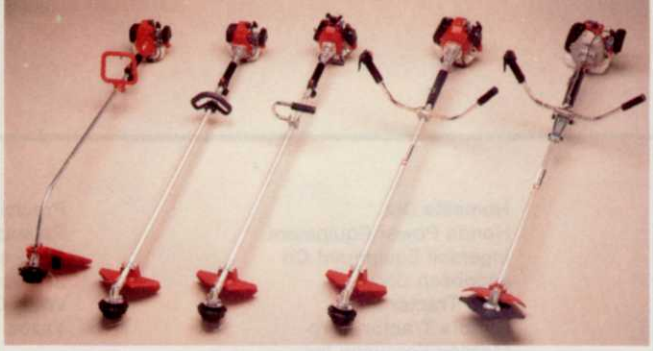

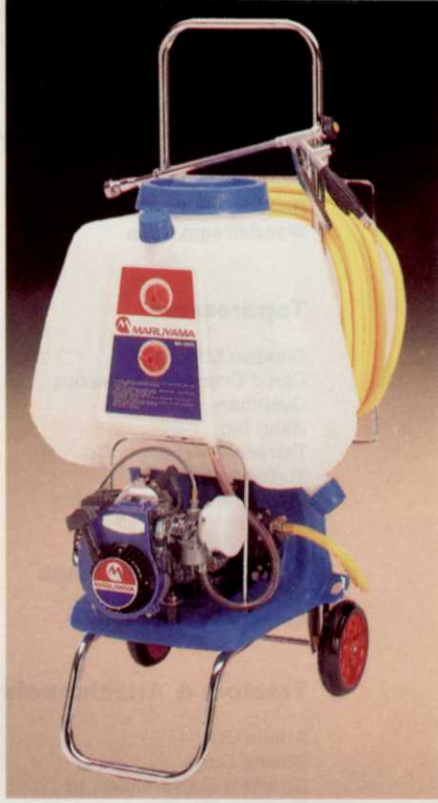

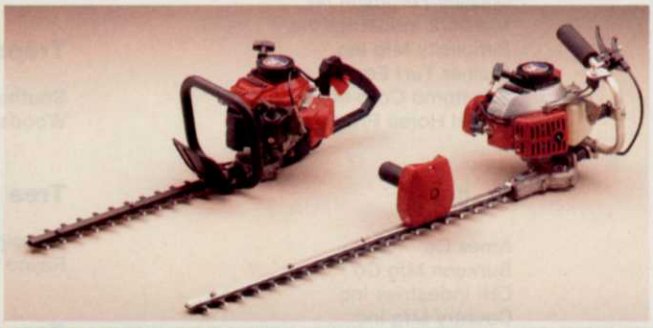

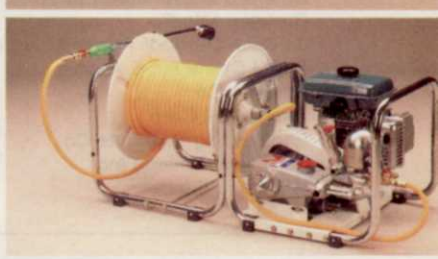

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Ask the commercial equipment users—they count on Maruyama worldwide for the very best dependability.

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Check it out—we're the best and broadest single source of power equipment.

■ Brushcutters ■ Hedge trimmers
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Our accounts worldwide boast of Maruyama sales growth. Even in the tough Japanese market, we rank #1 in sprayers and #3 in brushcutters*. If you want to grow—go with the very best.

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Our steady growth and commitment to two-step distribution with servicing dealers makes Maruyama a company you can count on.

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FAX: (206) 885-0123

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TAKE A TURN FOR THE BEST

Turn more production and return more profit to your landscaping business with a Bobcat 700 series skid-steer loader.

Designed with engineering excellence to turn in its own tracks for time-saving maneuverability. And featuring an impressive array of changeable attachments to handle almost any job.

The full Bobcat line features 15 model sizes, ranging from 600 lbs. up to 4,000 lbs. lift capacity to handle almost any size load.

The Bobcat skid-steer loader can turn in its own tracks.

Regardless of size, all Bobcats offer the same outstanding features. Agility in tight areas. Attachment versatility. Rugged durability. Easy maintenance and operation. Comfort and safety. Top performance in any work situation.

Bobcat also offers value. A Bobcat is well-built, and backed by a dealer service and parts network second to none. No matter where you put your Bobcat to work, there's a Bobcat dealer nearby with genuine Bobcat parts and service by factory-trained mechanics. In fact, Bobcats are so well-built and maintained that they keep their value at trade-in time, which gives you a big return on your initial investment.

Turn into your nearest Bobcat dealer today, and take a turn for the best in performance and value.

Angle Broom	Backhoe & Rear Stabilizer	Combination Bucket	Earth Auger	Front Scarifier
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Utility frame, three-point hitch, box scraper, york rake, trencher, Edwards mast, pallet fork, snowblade, tracks, vibratory roller and tree transplanter attachments are also available.

*Selected by Fortune Magazine as one of America's top 100 products.

Bobcat Builds America's Best*

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TOTAL CUSTOMER SATISFACTION
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The 700 series features three models with a lift capacity up to 1300.

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Promark Products Inc
Ransomes Inc
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For A Tough, Stay-On-The-Job Trencher That Outdigs All The Others...

...Demand Ditch Witch®!

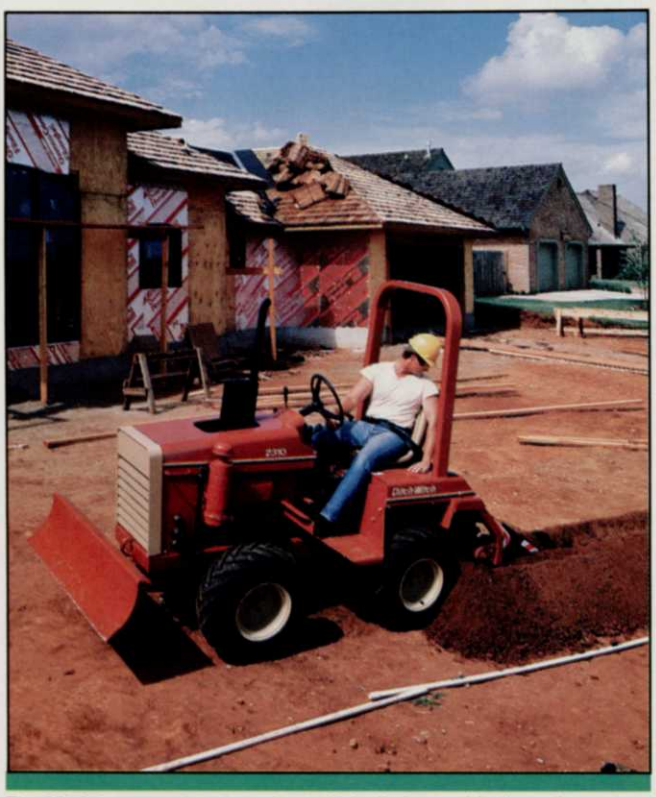
There are more people digging more trench in more places with Ditch Witch equipment than with any other brand of trencher manufactured in the world. Here are just a few good reasons why.

Ditch Witch Direct Drive

This rugged system allows you to dig wide or deep in even the most demanding conditions.

A Ditch Witch direct drive system makes efficient use of available horsepower, getting *more* power to the digging chain where it's needed. You'll dig more trench per hour than trenchers with more engine horsepower using hydraulic digging chain drive. And this means more feet of trench per gallon of fuel—you can count on it!

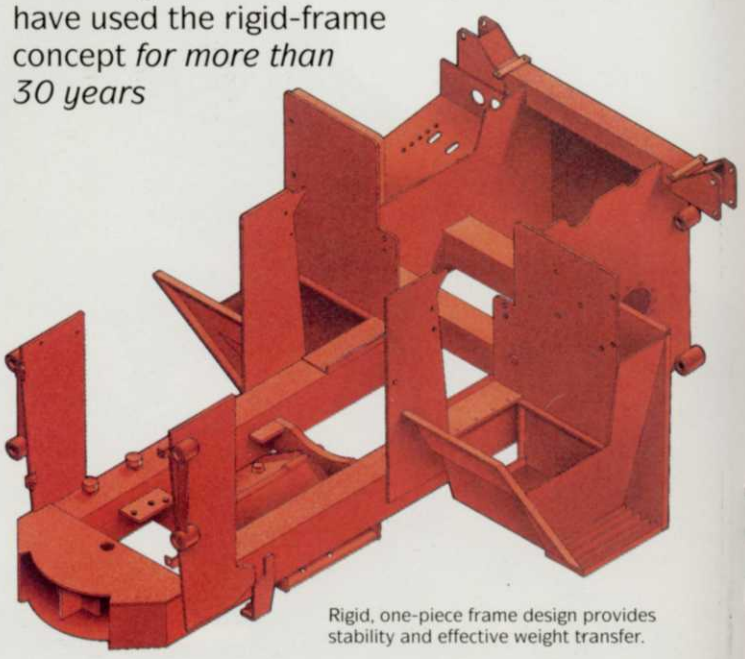
Downtime due to overheating is virtually eliminated, too. This proven direct drive system works harder than hydraulic drive systems, and it's less expensive to repair.



The 2310 has an enclosed gearbox, which eliminates driveline adjustments.

Rigid, One-Piece Frame Design

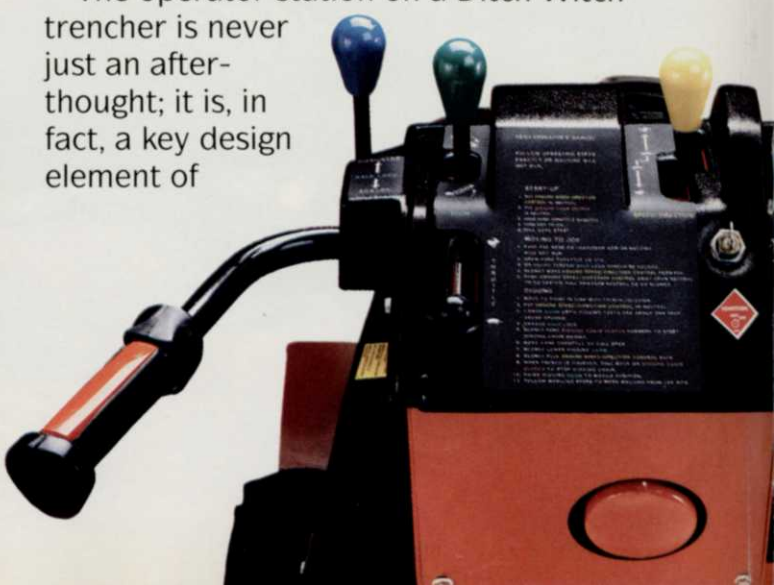
The Ditch Witch rigid frame transfers machine weight to the digging boom for more effective trenching. A rigid-frame Ditch Witch trencher digs a straight trench and backfilling is easier, too. Ditch Witch trenchers have used the rigid-frame concept *for more than 30 years* because it's stronger and more stable than an articulated frame. It makes you wonder why other trencher manufacturers have waited *so long* to start incorporating this basic design concept into their equipment.



Rigid, one-piece frame design provides stability and effective weight transfer.

Ease of Operation: A comfortable operator is a more productive operator.

The operator station on a Ditch Witch trencher is never just an afterthought; it is, in fact, a key design element of



Simplicity of operation and reliability make the Ditch Witch 1010 the best compact trencher ever made.

every trencher we build. The operator is comfortable on a Ditch Witch trencher, with an unobstructed view of the trenching operation. Controls are clearly identified, easy to understand, and easy to use.

Productivity Through Versatility.

Ditch Witch offers you a complete range of trenchers—from 9-HP through 100-HP—to meet about every need. The Ditch Witch Modularmatic® concept allows one machine to do the work of several; an example is the Combo unit for trenching and plowing. You can take advantage of specialized trenching booms and teeth for digging in frost and rocky soils. The Earth Saw module will cut trench in concrete and asphalt. There also are backhoe attachments, boring units, and other accessories that increase your jobsite productivity.

The powerful Ditch Witch 7510 sets new standards for 75-HP-class trenching productivity.

Ditch Witch Dealer Know-How

Your Ditch Witch dealer has the underground construction experience you can profit from. He can be the most important reason you should buy a Ditch Witch trencher.

After all, trenchers aren't a newly-acquired sideline for your Ditch Witch Dealer to sell; he is an underground construction expert with first-hand knowledge of trenching conditions in your area. He stocks a complete inventory of parts. And he offers a staff of trained service experts who are committed to *your* success. It's easy to see why the real value of owning a Ditch Witch trencher begins *after* the sale.

No one delivers parts and service better than your Ditch Witch dealer.

When you demand Ditch Witch, you get a trencher that's rugged enough to work all day long in tough conditions. Your Ditch Witch trencher is backed by committed dealers who know and understand the needs of your business. *No one but Ditch Witch offers these advantages.*

To see for yourself why Ditch Witch is the tough stay-on-the-job trencher that outdigs all the others, turn the page and call the dealer nearest you. Or, to find out which dealer services your area call The Charles Machine Works, Inc. toll free at (800) 654-6481.

Ditch Witch®

The Ditch Witch dealers in your region sponsoring this message are listed below.

Pilgrim Ditch Witch
109 Town Brook Road
West Yarmouth, Mass. 02673
(617) 771-4111

Ditch Witch of New Jersey
397 Highway 33
Manalapan Township
Englishtown, New Jersey 07726
(201) 446-9600

Ditch Witch of Central New York
5947 East Molloy Road
Syracuse, New York 13211
(315) 455-7379

Ditch Witch of Charlotte, Inc.
3908 N. Graham Street
Charlotte, North Carolina 28206
(704) 596-5700

Ditch Witch of Greensboro, Inc.
515 Chimney Rock Rd. at I-40
Greensboro, North Carolina 27419
(919) 294-5160

Ditch Witch of North Carolina, Inc.
P.O. Box 26957
Raleigh, North Carolina 27611
(919) 772-1214

Keystone Ditch Witch
Route 66
Delmont, Pennsylvania 15626
(412) 468-6709

Ditch Witch of Pennsylvania
Rt.100 & Little Conestoga Rd.
Eagle, Pennsylvania 19480
(215) 458-8282

Ditch Witch of Lake Erie
5034 Buffalo Road
Erie, Pennsylvania 16510
(814) 899-0629

Ditch Witch Mid-South
3681 Old Getwell Road
Memphis, Tennessee 38118
(901) 365-7400

Ditch Witch of Virginia
Rt. 4 Box 266
Washington Highway
Glen Allen, Virginia 23060
(804) 798-2590

Branch
Chesapeake, Virginia
(804) 424-5960

Ditch Witch of Roanoke, Inc.
251 Wildwood Rd.
Salem, Virginia 24153
(703) 387-0429

For the name and location of the Ditch Witch dealer servicing your area, call (800) 654-6481.

Circle Reader Service # 125.

RZ1

Equipment Companies

continued

Arborchem Products Co
PO Box 1567
Fort Washington PA 19034
215-659-7922

Arbortech/A Scott Fetzer Co
3203 W Lincoln Way
Wooster OH 44691
216-264-4266
800-255-5715

Ariens Co
655 W Ryan St
Brillion WI 54110
414-756-2141

Atlantic Construction Fabrics Inc
10201 Jefferson Davis Hwy
Richmond VA 23237
804-271-0633
800-448-3636

Atwater Strong Inc
6284 Waterloo
Box 68
Atwater OH 44201
216-947-2344

Badger Chipper Co
6 Johnson Ct
Bay City MI 48706
517-894-4579

B & G Equipment Co
Rte 611
PO Box 130
Plumsteadville PA 18949
215-766-8811

★ Barebo Inc/Otterbine
R D 2
PO Box 217
Emmaus PA 18049
215-965-6018

BASF Corp Fibers Div
Geomatrix Systems
Enka NC 28728
704-667-7713

Berkeley Pumps
725 Ann St
Delavan WI 53115
414-728-4224

Big John Tree Transplanter Mfg Inc
Hwy 110 East
PO Box 608
Heber Springs AR 72543
501-362-6181

BigToys
2601 S Hood St
Tacoma WA 98409
206-572-7611

Billy Goat Industries
1803 S Jefferson
PO Box 308
Lee's Summit MO 64063
816-524-9666

Bloch & Co
PO Box 18058
Cleveland OH 44118
216-371-0979

BlueBird Intl Inc
2778 S Tejon
Englewood CO 80110
303-781-4458

Bolens Corp
215 S Park St
Port Washington WI 53074
414-284-5521

Bomford & Evershed Ltd
Salford Priors
Nr Evesham
Worcs England WR11 5SW
(0789) 773383

★ Bowie Industries Inc
1004 E Wise St
PO Box 931
Bowie TX 76230
817-872-1106
800-433-0934

Briggs & Stratton Corp
12301 W Wirth St
Wauwatosa WI 53222
414-259-5333

★ Brillion Iron Works Inc
200 Park Ave
Brillion WI 54110
414-756-2121

Brinly-Hardy Co
340 E Main St
Louisville KY 40202
502-585-3351

★ Brouwer Turf Equipment Ltd
Woodbine Ave
Keswick ON Canada L4P 3E9
416-476-4311

Broyhill Co
N Market Sq
Dakota City NE 68731
402-987-3412

Buckner Irrigation
4381 N Brawley Ave
Fresno CA 93711
209-275-0500

★ Bunton Co
PO Box 33247
Louisville KY 40232
502-966-0550

Burkeen Mfg Co
11200 High Point Cove
Olive Branch MS 38654
800-647-9824

Bush Hog
Div Allied Products Corp
2501 Griffin Ave
Selma AL 36701
205-872-6261

Cambridge Soil Services of America Inc
106 Robert Gene
Glencoe AL 35905
205-492-7847

Carlson Engineering & Mfg Inc
68 Minwood Ave
Tallmadge OH 44278
216-633-5156

J I Case Outdoor Power Equipment Div
700 State St
Racine WI 53404
414-636-6011

A B Chance Co
210 North Allen
Centralia MO 65240
314-682-8450

CHI Industries Inc
PO Box 1148
Benton Harbor MI 49022
616-849-3400

Chipmore Mfg Co
6 Johnson Court
Bay City MI 48706
517-894-4578

J A Cissel Mfg Co
PO Box 339
Farmingdale NJ 07727
201-938-6600
800-631-2234

Classen Mfg
1403 Roach
Norfolk NE 68701
402-371-2294

Club Car Inc
4152 Washington Rd
Augusta GA 30907-0658
404-863-3000

Columbia Parcar Corp
One Golf Car Rd
Deerfield WI 53532
608-764-5474

Continental Bridge
Rte 5 Box 178
Alexandria MN 56308
612-852-7500
800-328-2047
800-572-7002(MN)

Conwed Fibers
1985 Tate Blvd SE Ste 350
Hickory NC 28601
704-327-6670

Country Mfg Inc
333 Salem Ave Ext
PO Box 104
Fredericktown OH 43019
614-694-9926

Earl J Crane Inc & Assocs
3975 County Rd 19
Tiffin OH 44883
419-447-8313

Howard S Crane Inc
Box 88
Oneida NY 13421
315-363-3390

Curb King
3038 I 70 Business Loop E
Grand Juction CO 81504
303-434-5337

★Cushman
900 N 21 St
Lincoln NE 68501
402-475-9581

★Daihatsu America Inc
Dept C
4422 Corporate Center Dr
Los Alamitos CA 90720
714-761-7000

Dandl Mfg Co
PO Box 687
Chico CA 95927
916-891-5163

Danville Industries
Hwy 160
Danville KS 67036
316-962-5292

Dedoes Industries Inc
91 Roberts Rd
Ossineke MI 49766
517-471-5413

★Deere & Co
John Deere Rd
Moline IL 61265
309-765-8000

Deutz-Allis Corp
PO Box 933
Milwaukee WI 53201
414-475-3413

DewEze Mfg Inc
Rte 2 Box 78
Harper KS 67058
316-896-7381

Dewitt Co
Hwy 61 S
RR 3 Box 338
Sikeston MO 63801
800-325-0950
314-472-0048

Didier Log Splitters
7777 N 73rd St
Milwaukee WI 53223
414-354-2310

★Ditch Witch
1959 W Fir Ave
PO Box 66
Perry OK 73077-0066
405-336-4402
800-654-6481

Dixon Industries Inc
a Coleman Co
PO Box 1569
Coffeyville KS 67337
316-251-2000

DOB Distributors Inc
12805 Eckmoor Rd
Silver Spring MD 20904
301-622-9397
800-255-0901

E I DuPont de Nemours & Co
1007 Market St
Wilmington DE 19898
302-992-6161

Dyna/Energx Corp
245 E Sixth St
St Paul MN 55101-1988
612-293-0740

Eberhart Steel Products/Plastic Div
417 E Jefferson
Mishawaka IN 46545-6594
219-259-2461

★Encap Products Co
PO Box 278
Mount Prospect IL 60056
312-593-6464

Encon Safety Products
13333 Northwest Fwy
Houston TX 77040
713-462-4723

Engineering Products Co
3000 S 160 St
New Berlin WI 53151
414-785-0786

★Excel Industries Inc
200 S Ridge Rd
Hesston KS 67062
316-327-4911

Exmark Mfg Co
2101 Ashland Ave
Beatrice NE 68310
402-223-4010

Exxon Chemical Americas
Hwy 78 W
Summerville SC 29483
803-875-8157

E-Z-GO Textron
PO Box 388
Augusta GA 30913
404-798-4311

Fairmont Hydraulics Div Fairmont Railway Motors-Harsco Corp
415 N Main St
Fairmont MN 56031
507-238-4357

Falkenberg Inc
9420 SE Lawnfield
Clackamas OR 97015
503-659-8655

Fanno Saw Works
PO Box 628
Chico CA 95927
916-895-1762

Feldmann Engineering & Mfg Co
520 Forest Ave
Sheboygan Falls WI 53085
414-467-6167

★Finn Corp
9281 LeSaint Dr
Fairfield OH 45014
513-874-2818

Ford New Holland Inc
500 Diller Ave
New Holland PA 17557
717-354-1261

Foresight Products Inc
10780 Irma Dr #22
Northglenn CO 80233
303-457-0222
800-325-5360

Franklin Electric
400 Spring St
Bluffton IN 46714
219-824-2900

Friend Mfg Corp
Prospect St
Gasport NY 14067
716-772-2622

Fuerst Brothers Inc
Rte 47 S
PO Box 427
Gibson City IL 60936
217-784-4266
800-435-9630

FXG Corp
3 Sullivan St
Woburn MA 01801
617-933-8428

Gandy Co
528 Gandrud Rd
Owatonna MN 55060
507-451-5430

Gardenamerica
27940 Beale Ct
Valencia CA 91355
800-634-TURF

Giant-Vac Mfg Inc
11 Machine Shop Rd
South Windham CT 06266
203-423-7741

Glenmac Inc
1805 Second Ave SW
PO Box 2135
Jamestown ND 58402
701-252-9300

★Goossen Industries
925 W Court St
Beatrice NE 68310
402-228-4226
800-228-6542

★Grasshopper Co
PO Box 637
Moundridge KS 67107
316-345-8621

Gravely Intl Inc
One Gravely Lane
Clemmons NC 27012-5000
919-766-4721

Grazer Div Willsey-D Inc
130 Main St
PO Box 460
Maple Hill KS 66507
913-663-2228

Great Northern Equipment Co
3550 Great Northern Ave
Springfield IL 62707
217-787-9870

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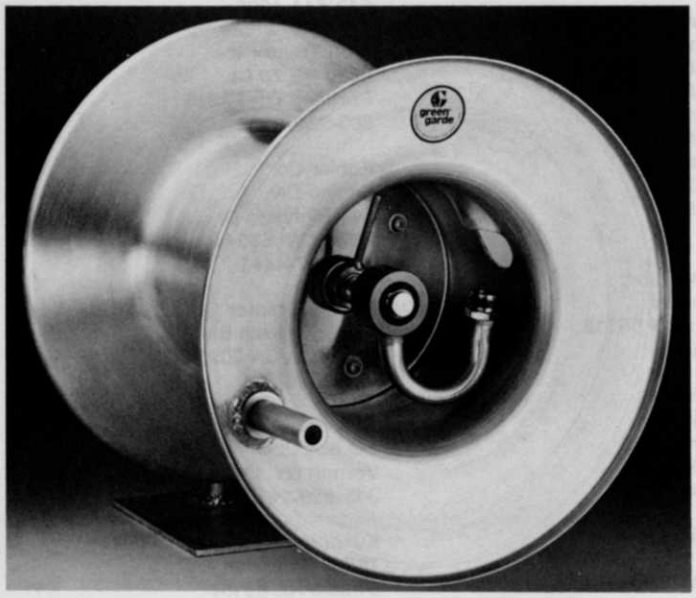
green garde®

High Performance Spray Team

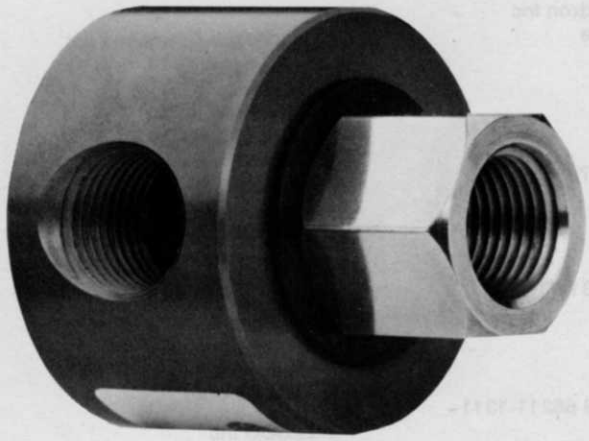
INCREASE YOUR PROFITABILITY AND RELIABILITY WITH . . .



Heavy-Duty
GREEN GARDE HOSE REELS

- Prolong Hose Life — Cover More Area Efficiently and Easily!
- Built to Last Longer — Made of Marine Alloy Aluminum for Maximum Strength and Minimum Weight!
- Equipped with **Extra-Duty** Green Garde Swivels that Outperform and Outlast ALL others!
- Four Popular Sizes — hose capacities from 100 to 400 feet of ½" hose.
- Sturdy Plated Steel Pedestal resists corrosion.

AVOID COSTLY AND HAZARDOUS LEAKS, REDUCE DOWNTIME WITH . . .



Extra-Duty
GREEN GARDE Replacement
HOSE REEL SWIVELS

- Same Quality Swivel as installed on ALL Green Garde Hose Reels!
- Installs as replacement with little or no modification on Hannay Hose Reels and most other brand hose reels!
- Extensively Field Tested — utilizes space-age materials and Viton® O-rings for Heavy-Duty Rotary Operation. ½", ¾", 1" swivel sizes available.
- Repacking kits available — easy and quick to install.

ALL NEW ¾" SWIVEL now available
It's for those tough and demanding jobs. Nickel plated throughout for corrosion resistance, utilizing oil impregnated bronze bearings and spring loaded Viton® O-rings. (Not illustrated.)

See these and many other fine Green Garde products at your distributor or contact us at (312) 593-6464

Green Garde is a Reg. Trademark of Encap Products Company

ENCAP PRODUCTS COMPANY • P.O. Box 278 • Mt. Prospect, IL 60056

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Circle No. 119 on Reader Inquiry Card

Equipment Companies

continued

Jonathan Green & Sons Inc
Squankum-Yellowbrook Rd
PO Box 326
Farmingdale NJ 07727
201-938-7007

Green Machine Div HMC
PO Box 560
Long Beach CA 90810-0560
213-603-9888

Guest Industries Inc
3601 Winsted Rd
Torrington CT 06790
203-482-1118
800-243-5390

★ Hahn Inc
1625 N Garvin St
Evansville IN 47711
812-428-2020

Hancor Inc
401 Olive St
Findlay OH 45840
419-422-6521

Hannay Reels
600 E Main St
Westerlo NY 12176
518-797-3791

Heckendorn Mfg Co
Box 88
Cedar Point KS 66843
800-835-7805

Hendrix & Dail Inc
803 Industrial Blvd
PO Box 648
Greenville NC 27835-0648
919-758-4263

Herd Seeder Co
3600 E on US 35 SE
Logansport IN 46947
219-753-6311

Hi-Ranger Inc
N4 W22610 Bluemound Rd
Waukesha WI 53186
414-547-1000

Hoechst Celanese Corp
Interstate 85 @ Rd 57
PO Box 5887
Spartanburg SC 29304
800-845-7597

Hoffco Inc
358 NW "F" St
Richmond IN 47374
317-966-8161

Homelite Div Textron Inc
14401 Carowinds Blvd
Charlotte NC 28241
704-588-3200

★ Honda Power Equipment
100 W Alondra
Gardena CA 90247
213-327-8287

Howard Rotavator Co
102 Howard Ave
PO Box 7
Muscoda WI 53573
608-739-3106

H D Hudson Mfg Co
3439 Merriam Dr
Overland Park KS 66203
913-677-0094

Hunter Industries
1940 Diamond St
San Marcos CA 92069
619-744-5240

★ Hydro Turf and Assoc
160 W Industrial Dr
Gilberts IL 60136
312-551-1555

Hypro Corp
A Lear Siegler Sub
375 Fifth Ave NW
New Brighton MN 55112
612-633-9300

Imler Industries Inc
1117 Broadview
Columbus OH 43212
614-486-9068(OH)
800-433-1764

Ingersoll Equipment Co
PO Box 5001
Winneconne WI 54986
414-582-4455

Inject-O-Meter Mfg Co
820 Thornton St
Clovis NM 88101
505-763-4461

★ Jacobsen Div Textron Inc
1721 Packard Ave
Racine WI 53403
414-637-6711

★ Jerr-Dan Co
1080 Hykes Rd
Greencastle PA 17225
800-248-6000

JISCO
1941 Karlin Dr
St Louis MO 63131
314-966-2420

Kalo Inc
4370 W 109 St
Overland Park KS 66211-1311
913-491-9125

★ Kawasaki Motors Corp USA
9950 Jeronimo Rd
Irvine CA 92718
714-770-0400

Kawasaki Motors Corp USA Engine Div
650 Industrial Circle S
PO Box 504
Shakopee MN 55379
612-445-6060

F D Kees Mfg Co
700-800 Park Ave
Beatrice NE 68310
402-223-2391

★ KEM Enterprises Inc
18425 Eighth Ave SW
Seattle WA 98166
206-433-0407

Kinco Mfg
170 N Pascal
St Paul MN 55104
612-644-4666

Kioti Tractor Inc
6620 NE 79 Ct
Portland OR 97218
503-252-3537

★ Kohler Co
Engine Div
444 Highland Dr
Kohler WI 53044
414-457-4441

★ Kubota Tractor Corp
550 W Artesia Blvd
Compton CA 90220
213-537-2531

Kuhn Farm Machinery Inc
PO Box 224
Vernon NY 13476
315-829-2620

Kuker Industries
13709 Industrial Rd
Omaha NE 68137
402-895-3050

★ Kut-Kwick
PO Box 984
Brunswick GA 31520
912-265-1630

Landscape Structures Inc
601 S Seventh St
Rte 3
Delano MN 55328
612-972-3391

Claude Laval Corp
1911 N Helm Ave
Fresno CA 93727
209-255-1601

Lawnboy Product Group
PO Box 181120
Memphis TN 38181-1120
901-795-9204

★ LESCO Inc
20005 Lake Rd
Rocky River OH 44116
216-333-9250
800-321-5325
800-686-7413(OH)

Lindig Mfg Corp
1875 W County Rd C
St Paul MN 55113
612-633-3072

Little Beaver Inc
PO Box 840
Livingston TX 77351
409-327-3121
Telex: 386596

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Back To Basics . . . Introducing The 1988 CL Series

New for '88

- Economical, "No Frills" design
- Available in 50", 60" and 72" cut
- Famous Kut-Kwick durability and safety

The CL Series is for Commercial/Lawn Users. Superior performances in both rough cut and refined mowing, at speeds to 11 miles per hour. Hydrostatic propulsion, 20 HP engine, low center of gravity, rear discharge "clamshell" deck, vertically articulating rider and big 23" steered wheel combine for added safety, operator comfort and control. The "CL" gives the commercial user a tough, low maintenance machine that mows better at top speed in either refined or rough conditions than other mowers at half the speed.

Kut-Kwick. More than forty years of experience building commercial mowers for professional users.

kut-kwick

P.O. Box 984
Brunswick, Georgia 31521
Telephone 912-265-1630

Call today for complete information.
Toll-free 1-800-248-5945
In GA. 1-800-592-5945

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Locke Mfg Inc
1100 Boston Ave
Bridgeport CT 06610
203-333-3157

Magee Machine & Mfg
4300 Forney Rd
Mesquite TX 75149
214-285-2554

Magic Circle-Dixie Chopper
RR 1 Box 345
Coatesville IN 46135
317-246-6845

Magline Inc
503 Mercer St
Pinconning MI 48605
517-879-2411

M & W Gear Co
Rt 47 South
Gibson City IL 60936
217-784-4261

Mar-Mac Mfg Co
PO Box 278
McBee SC 29101
803-335-8211

★ Maruyama US Inc
15436 NE 95 St
PO Box 2167
Redmond WA 98073-2167
206-885-0811

Massey-Ferguson Inc
1901 Bell Ave
Des Moines IA 50315
515-247-2011

Master Mfg Co
119 Main St
Sioux City IA 51103
712-258-0108

Mathews Co
500 Industrial Ave
Crystal Lake IL 60012
815-459-2210

J J Mauget Co
2810 N Figueroa St
Los Angeles CA 90065
213-227-1482

★ Mazda
7755 Irvine Center Dr
Irvine CA 92718
714-727-1990

Melcher Mfg Co
E 6017 Mission
Spokane WA 99212
509-535-7626

Melex USA Inc
1221 Front St
Raleigh NC 27609
919-828-7645

★ Melroe Co
PO Box 6019
Fargo ND 58108
701-241-8700

Mid Dakota Corp
Garrison Industrial Park
Box 728
Garrison ND 58540
800-327-7154

Middlesworth Engineering & Mfg Inc
1050E 200N
PO Box 165
Greentown IN 46936
317-628-2230

3M Occupational Health & Safety
Products Div
Bldg 220-7W-02
3M Center
St Paul MN 55144-1000
800-328-1667

Morbark Industries Inc
PO Box 1000
Winn MI 48896
517-866-2381

Motorola Control Systems
3039 Kilgore Rd Ste 190
Rancho Cordova CA 95670
916-635-8884

MoTrim Inc
240 Steubenville Ave
Cambridge OH 43725
614-439-2725

Mott Corp
500 Shawmut Ave
PO Box 518
LaGrange IL 60525
312-354-7220

Moyer & Son Inc
113 E Reliance Rd
Souderton PA 18964
215-723-6001

Moyer Products Inc
3321 W Castor
Santa Ana CA 92704
714-549-2871

Nalco Chemical Co
One Nalco Center
Naperville IL 60566-1024
312-961-9500

National Mower Co
700 Raymond Ave
St Paul MN 55114
612-646-4079

Nature's Touch
11150 W Addison St
Franklin Park IL 60131
312-455-6900

Nissan Motor Corp USA
18501 S Figueroa
PO Box 191
Gardena CA 90247
213-532-3111

Noland Car Co
PO Box 190
Edgewater FL 32032-0190
904-427-9645

North American Green Inc
14649 Hwy 41 N
Evansville IN 47711
812-867-6632

★ Olathe Mfg Inc
100 Industrial Pkwy
Industrial Airport KS 66031
913-782-4396
800-255-6438

Oly-Ola Sales Inc
54 E St Charles Rd
Villa Park IL 60181
312-833-3033
800-EDGINGS

Omark Industries
4909 SE International Way
Portland OR 97222
503-653-8881

OMC-Lincoln
See Cushman

★ Onan Corp
1400 73 Ave NE
Minneapolis MN 55432
612-574-5000

Outdoor Products & Supply Inc
3924 Orchard Rd
Cleveland Heights OH 44121
216-587-5438

R L Parsons & Son Equipment Co
7155 St Rt 142
PO Box 28
West Jefferson OH 43162
614-879-7601

Phillips Fibers Corp
PO Box 66
Greenville SC 29602
803-242-6600
800-845-5737(East)
800-437-6600(West)
800-452-5769(CA)

Pierce Corp
10 N Central St
Eugene OR 97402
503-485-3111

Playworld Systems
PO Box 227
New Berlin PA 17855
800-233-8404

Power Lawnmower Parts Inc
1920 Lyell Ave
PO Box 60860
Rochester NY 14606
716-458-0800

Precision Laboratories Inc
PO Box 127
Northbrook IL 60065
312-498-0800

Precision Products Inc
2415 S Grand Ave E
Springfield IL 62708
217-528-1311

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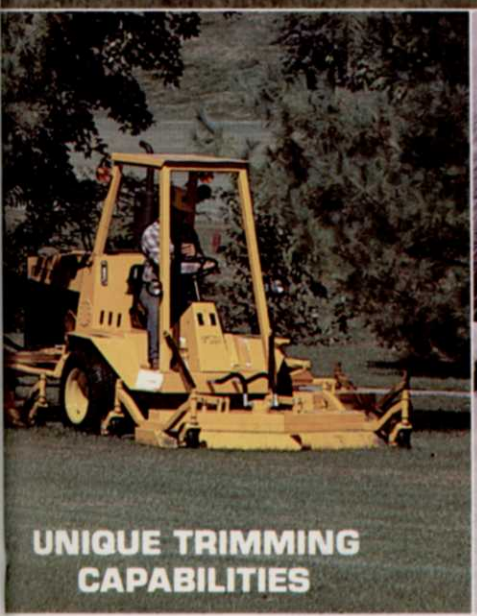
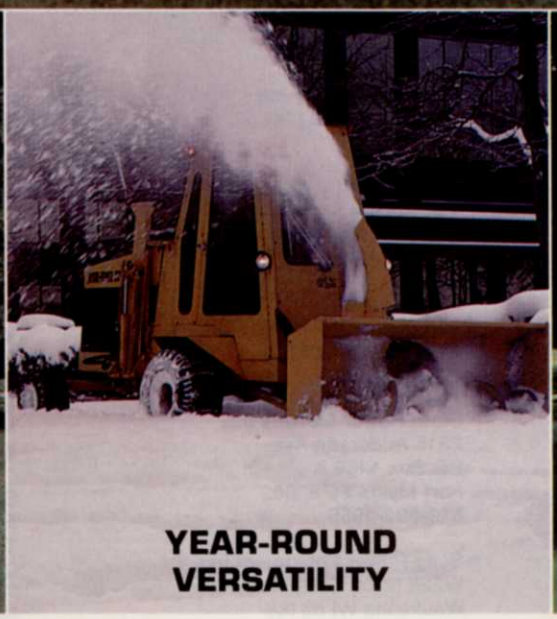
CUT YOUR TURF PROBLEMS DOWN TO SIZE

with HYDRO-POWER 180



UNIQUE TRIMMING CAPABILITIES



YEAR-ROUND VERSATILITY

EASY-FOLDING CUTTING UNITS FOR TRANSPORT

Your search for a high capacity mower encompassing a one man operation is now concluded. The Hydro-Power 180 with its 15 foot hydraulically driven rotary mower has a mowing capacity of up to 11 acres an hour while incorporating rear wheel steering for maximum maneuverability. Cutting units are designed for maximum floatation and may be used individually or in any combination of the three.

A foot pedal controlled hydrostatic transmission affords variable mowing speeds as well as transport speed to insure maximum travel time between the job sites. The Hydro-Power 180 offers year-round versatility with a 2-stage, 73'' snow blower and heated cab.

Manufactured by HOWARD PRICE TURF EQUIPMENT 18155 Edison Avenue Chesterfield, Mo. 63017

Circle No. 127 on Reader Inquiry Card

continued

Presto Products Inc
PO Box 2399
Appleton WI 54913
414-739-9471

★ Howard Price Turf Equipment
18155 Edison Ave
Chesterfield MO 63017
314-532-7000

Professional Tree & Turf Equipment
6945 Indiana Ct Ste 400
Golden CO 80403
303-422-7608
800-237-7785

Professional Turf Mfg
1801 Industrial Park Rd
Normal IL 61761
309-452-2155
800-367-9091

Progressive Electronics Inc
325 S El Dorado
Mesa AZ 85202
602-966-2931

Progressive Power Tools Corp
1100 W Broadway St
Three Rivers MI 49093
800-635-LINK
606-279-7414(MI)

★ Promark Products Inc
330 Ninth Ave
City of Industry CA 91746
818-961-9783

PSB Co
555 W Goodale St
Columbus OH 43216
614-228-5781

★ Rain Bird Sales Inc
145 N Grand Ave
Glendora CA 91740
818-963-9311

★ Ransomes Inc
One Bob Cat Lane
Johnson Creek WI 53038
414-699-2000

Raven Industries Inc
PO Box 1007
Sioux Falls SD 57117
605-336-2750

Ravens Metal Products
703 Rayon Dr
Parkensburg WV 26101
304-485-0123

Rayco Mfg Co
6822 Lincoln Way E
Wooster OH 44691-9954
216-264-8699

Raymond Corp
S Canal St
Greene NY 13778
800-235-7200

Reach-All Inc
1300 Terminal Dr
Duluth MN 55816
218-722-9200

Reading Body Works Inc
Hancock Blvd & Gerry St
Reading PA 19611
215-775-3301

★ Reemay Inc
Industrial Rd
Old Hickory TN 37138
615-847-7000

C L Reilly Tree Service & Mfg
RR 1 Box 73
Crystal ND 58222
701-657-2369

★ Reinco Inc
520 North Ave
PO Box 512
Plainfield NJ 07060
201-755-0921
800-526-7687

Richway Industries Ltd
525 Main St
Janesville IA 50647
319-987-2976

Roseman Mfg Co
2300 Chestnut Ave
Glenview IL 60025
800-852-ROSE

Roto-Hoe Co
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Newbury OH 44065
216-564-2294

★ Rousseau
8433 Mid County Ind
St Louis MO 63114
314-426-7377

Royer Foundry & Machine Co
158 Pringle St
Kingston PA 18702
717-287-9624

Salsco Inc
105 School House Rd
Cheshire CT 06410
203-271-1682

Sarlo Power Mowers Inc
2315 Anderson Ave
PO Box 1169
Fort Myers FL 33902
813-332-1955

★ Scag Power Equipment Inc
W226 N900 Eastmound Dr
Waukesha WI 53186
414-544-4090

★ O M Scott & Sons Co
14111 Scottslawn Rd
Marysville OH 43041
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800-543-0006

Seaman-Parsons Corp
W161 N9116 Hayes Ave
Menomonee Falls WI 53051
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Sea-Ranch
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Sheridan AR 72150
501-942-2515

Sensation Div Gilson Brothers
Cty Trunk PP
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414-893-1011

Seymour Mfg Co
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800-457-1909

Shindaiwa Inc
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Tualatin OR 97062
503-692-3070

Simplicity Mfg Inc
500 N Spring St
Port Washington WI 53074
414-377-5450

D B Smith & Co
414 Main St
Utica NY 13501
315-735-5223

Seymour Smith & Son Inc
900 Main St
Oakville CT 06779
203-274-2558

Smith Precision
1299 Lawrence Dr
Newbury Park CA 91320
805-498-6616

Snapper Power Equipment
535 Macon Rd
McDonough GA 30253
404-957-9141

Snowco Inc
4350 McKinley St
PO Box 12067
Omaha NE 68112
402-453-2200

Solo Inc
5100 Chestnut Ave
Newport News VA 23605
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Southern Mill Creek Products Co
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813-626-2111

Spraying Devices Inc
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- Scag's patented pivot-mount frame and zero-turning radius make maneuvering easier.
- Eaton Series 850 hydrostatic transaxle for smooth operation with just a touch of the foot.
- Trouble-free performance hydrostat warranted for two years.
- Drive wheels driven by independent motors for a smooth transition through curves and better traction.
- Specially-designed foot pedal reduces operator fatigue.
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293 S Wright St
Delavan WI 53115
414-728-5551

Steiner Turf Equipment Inc
930 Penn Ave
PO Box 85
Orrville OH 44667
216-683-0055

Strong Enterprises Inc
14090 SW 144 Ave Rd
Miami FL 33186
305-235-0967

Strong Mfg Co
N US Hwy 79
PO Box 8068
Pine Bluff AR 71611
501-535-4753

Sumitomo Corp of America
Machinery Dept
345 Park Ave
New York NY 10154

Supreme Corp
16500 CR 38
PO Box 463
Goshen IN 46526
219-642-4888

Tanaka Kogyo (USA) Co Ltd
22121 Crystal Creek Blvd SE
Bothell WA 98021
206-481-2000

Taylor-Dunn
2114 W Ball Rd
Anaheim CA 92804
714-956-4040

★Tecumseh Products Co
900 North St
Grafton WI 53024
414-377-2700 ext 640

Teledyne Princeton
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Canal Winchester OH 43110-0246
614-837-9096
800-331-5851

Teledyne Total Power
3409 Democrat Rd
Memphis TN 38118
901-369-4053

Tennant Co
701 N Lilac Dr
Minneapolis MN 55440
612-540-1200
800-553-8033

Terracare Products Co
PO Box 506
Pardeeville WI 53954
608-429-3402

Terrain Vehicles Inc
221 Mitchell Court
PO Box 418
Addison IL 60101
312-953-8747

Thompson Seeder Co
US Hwy 35 S
PO Box 776
Logansport IN 46947
219-753-6366

★Toro Co
8111 Lyndale Ave S
Bloomington MN 55420
612-888-8801

Toro Co Irrigation Div
5825 Jasmine St
Riverside CA 92504
714-688-9221

Toyota Motor Sales USA Inc
19001 S Western Ave
Torrance CA 90509
213-618-4000

Trebor Corp
4045-A Jonesboro Rd
Forest Park GA 30050
404-366-0957

Trojan Battery Co
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Santa Fe Springs CA 90670
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Tuflex Mfg Co
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305-785-6402

Turfco Mfg Co
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Minneapolis MN 55412
612-588-0741

Turf Vac Corp
15701 Graham St
Huntington Beach CA 92649
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Vaughans Seed Co
Chimney Rock Rd
PO Box 469
Bound Brook NJ 08805
201-356-4200

Vermeer Mfg Co
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PO Box 200
Pella IA 50219
515-628-3141

Vicon Farm Machinery Inc
3741 Cook Blvd
PO Box 6313
Chesapeake VA 23323
804-485-1600

Waldon Inc
201 W Oklahoma Ave
Fairview OK 73737
405-227-3711

Walker Mfg Co
1839 E Harmony Rd
Fort Collins CO 80525
303-226-1514

★Warren's Turf Nursery Inc
Cordelia & Chadbourne Rds
PO Box 459
Suisun City CA 94585
707-422-5100

Weather-matic
3301 W Kingsley Rd
Garland TX 75041-2207
214-278-6131

★Wells Cargo Inc
McNaughton St
PO Box 728-810
Elkhart IN 46515
219-264-9661
800-348-7553

Westendorf Mfg Co
Hwy 175
PO Box 29
Onawa IA 51040
712-423-2762

Western Wood Structures Inc
20675 SW 105 St
PO Box 130
Tualatin OR 97062
503-692-6900

★Westheffer Co
1235 N Third St
PO Box 363
Lawrence KS 66044
913-843-1633

Weyerhaeuser Co
EF-4
Tacoma WA 98477
206-924-3138
800-443-9179

Wheel Horse Products Inc
515 W Ireland Rd
South Bend IN 46614
219-291-3112

Wheel Spray Corp
PO Box 97
Delafield WI 53018
414-646-8640

Winco/Energx Corp
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St Paul MN 55101-1988
612-293-0740
Telex: 29-0740 ENERGY STP
Fax: 612-292-0851

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ENGINE AND TRANSMISSION GROUP
NEW HOLSTEIN OPERATIONS, NEW HOLSTEIN, WI 53061
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Published in:
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717-626-2125

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Cypress CA 90630
714-761-7304
800-447-4700

Yard Vac Products Inc
3849 E Ventura
Fresno CA 93702
209-251-7125

Yazoo Mfg Co
3650 Bay St
Jackson MS 39216
601-366-6421

3. Chemicals

This section is broken down by chemical product with companies providing that chemical listed below. Products common name (in parentheses) and brand names are listed on the line following the company name.

Absorbefacient (Aquatic)

Arborchem Products Co
(Blend of nonionic surfactants) Arborchem Aquatic Surfactant
Aquashade Inc
(Acid Blue q, Acid Yellow 23) Aquashade
Nalco Chemical Co
Nalco 2151, Nalquatic, Nalco-Trol, Nalco-Trol II, Sta-Put

Adjuvant/Carrier

Arborchem Products Co
(Blend of nonionic surfactants) Arborchem Surfactant Aliphatic & Cyclic based natural & petroleum products & nonionic blended emulsifiers) Arborchem Clean Cut & Arborchem Clean Cut + Pine
Chevron Chemical Co
(Alkylarylpolyoxyethylene, glycols, free fatty acides, isopropanol) Ortho X-77
W A Cleary Corp
Super-Wet
Cumberland Intl Corp
Ag-Chem Activator
Elanco Products Co
Improve
Fermenta Plant Protection Co
(Fatty amine ethoxylate) Frigate
Fermone Chemicals Inc
(Protein feeding stimulant) Entice
Kalo Inc
(Alkylarylpolyethoxyethanol acids, glycol ethers Di-alkyl benzene dicarboxylate, Isopropanol) Bio-Film
Leffingwell
(Non-ionic surfactants) Activate, Super Savol; (NPK, secondary & micronutrients) Sorba-Spray; Sorbacide
LESCO Inc
LESCO Spreader Sticker, LESCO-WET
Nature's Touch
(Plant/microbial by-products, enzymes) Nutra-Aid
PBI-Gordon Corp
(Petroleum oil-parafin base, surfactant blend) Adjumer
Precision Laboratories Inc
Compliment, Balance, Pen-A-Trate, Chem-Stik
Safer Inc
(Acrylic co polymer) Prostick
Southern Mill Creek Products Co
SMCP Spreader Sticker
UAP Special Products Inc
Activator 90, Bond, LI 700

Algaecide

Applied Biochemists Inc
(Chelated Copper) Cutrine-Plus, Cutrine-Plus Granular
Great Lakes Biochemical Co
(Chelated Copper) Algimycin PLL-C; (Chelated Copper) Slow Release Algimycin PLL-C; (Chelated Copper) Algimycin PLL-C
Hendrix and Dail Inc
(Formaldehyde) HD Bi-O-Cide
LESCO Inc
(Elemental copper) Lescocide-Plus
Nacco
NaccoSan B-60
Safer Inc
(Potassium salts of fatty acids) Safer Moss & Algae Killer
Southern Mill Creek Products Co
A+V70 Plus

Antitranspirant

Aquatrols Corp of America Inc
(Paraffin wax emulsion) Folicote
W A Cleary Corp
Clearspray
Jonathan Green & Sons Inc
Green Pro Services
(Antidesiccant pine tar base) Vita Coad
Nature's Touch
(Antidesiccant) Leaf Cote Clear
PBI-Gordon Corp
(Polyethylenes/Polyterpines) Transfilm
Precision Laboratories Inc
Preserve
Safer Inc
(Polymer) Safer for Evergreen
Wilt-Pruf Products Inc
Wilt-Pruf

Bacteriocide

J J Mauget Co
(Streptomycin) Inject-A-Mycin "S"

Colorant

Arborchem Products Co
(Proprietary) Bullseye
Becker-Underwood Inc
(Blue pattern indicator) TURFMARK; (blue pattern indicator) Hi-Light industrial strength; (Oil soluble indicator) Bas-Oil Red

SEE WHERE YOU SPRAY
Spray Colorant Reduces Skips, Drifts, Overlaps
Becker-Underwood
701 Dayton Road
Ames, IA 50010
515-232-5907

W A Cleary Chemical Co
Greenzit, Super Greenzit, Super Greenzit C
Jonathan Green & Sons Inc
Dyon
Kalo Inc
(Alkyl-omega-hydroxypoly (oxyethylene) sulfate, bis (di-alkyl) sodium) 1, 4 butanedioate) Fomark
LESCO Inc
(Blue indicator dye) LESCO Tracker
Mallinckrodt Inc
Turf Colorant, Auragreen, Vitalon
Milliken Chemical
(Polymeric) Blazon

Blazon®
SPRAY PATTERN INDICATOR
A non-staining colorant for accuracy and safety of pesticide applications.
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Precision Laboratories Inc
Signal
Royalgard Products Co
Royalgreen
Southern Mill Creek Products Co
Blazon; Aquashade
Trebor Corp
(Green Dye) Marker

Sorry, crabgrass. Sorry, goosegrass. You won't be checking in here this season. Not on turf areas treated with Team preemergence herbicide.

Only one group has reservations. Your turfgrass. Even bentgrass can relax, Team is that gentle.

That means with a split application you can take an all-season vacation from weeds. From upset golfers, callbacks and costly reapplications.

Application is easy and accurate. Team gets to the ground where you want it. It won't leach out, even in heavy rainfall. Once activated, it forms a zone of protection that shuts the door on weeds for up to 20 weeks.

Team is widely available on dry fertilizer from leading formulators, and in granular form from your distributor.

So if weeds are planning to visit your turf this season, tell them sorry. You've booked Team for the season. See your Elanco distributor. Or call toll-free: **1-800-352-6776.**

Elanco Products Company
A Division of Eli Lilly and Company
Lilly Corporate Center
Dept. EM-455, Indianapolis, IN 46285, U.S.A.
Team™—(benefin+trifluralin, Elanco)
Refer to the Team label for complete use directions.

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With Team™ on your turf, weeds won't check in all season long.

continued

Defoamer

Applied Biochemists Inc
(Silicone emulsion) Foamtrine

Arborchem Products Co
(Polydimethylsiloxane) Arborchem Defoamer

W A Cleary Corp
Cleary's Defoamer

Finn Corp
(Aqueous emulsion of silica-in-silicon oil compound) Foam Chek

Great Lakes Biochemical Co
(Silicone emulsion) Foam Out

Jonathan Green & Sons Inc

Kalo Inc
(Dimethylpolysiloxane) Defoamer & Anti-Foam

LESCO Inc
(Silicone) LESCO Defoamer

Moyer Chemical Co
Anti-Foam, Foam Fighter

Nacco
Antifoam

Precision Laboratories Inc
Knockdown, Control

Rigo Co
(Silicone) Red-Top No-Foam

UAP Special Products Inc
Fighter F

Drift Retardant

Arborchem Products Co
(Hydrolyzed Polyacrylamide) Arborchem 38-F Drift control additive

W A Cleary Corp
Cleary's Driftproof

Nalco Chemical Co
Nalco-Trol, Nalco-Trol II, Nalquatic

Nature's Touch
(Polyvinyl polymer) Sta-Put

Nepera Inc
(Polyacrylates) Viterra 800

Southern Mill Creek Products Co
Nalco-Trol; Nalco-Trol II

UAP Special Products Inc
38F, Chemtrol

Fertilizer, Tree

J & L Adikes Inc
Eeesy-Grow

W A Cleary Corp
(Methyleneurea polymers) FLUF 18-0-0

Creative Sales Inc
(Iron) Medicap FE; (Manganese) Medicap MN; (Zinc) Medicap ZN; (N-P-K, Fe, Mn & Zn) Medicap MD

Doggett Corp
(NPK slow release) XL-Injecto Feed 32-7-7 & 12-24-24, Evergreen Special 30-7-10

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(Sulfate of Potash) GLS

Green Pro Services
(NPK, Humic acid, Primary, Secondary nutrients Vita Tree & Shrub

Growth Products Ltd
(26-0-0 Methylene diurea) Nitro-26 CRN

NITRO-26 CRN
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A TRUE SOLUTION. Nitro-26 CRN (26-0-0), is a liquid fertilizer so unique that it has all the advantages of both solutions and suspensions. In fact, it looks like a solution, but it contains long chain methylene diureas (MDU) normally found in suspensions. Low burn • Excellent stability • No special agitation • Less leaching & volatilization • Controlled nitrogen release • More uniform growth response • Longer residual response

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LaRoche Industries Inc
(NPK) Vertagreen

Lebanon Chemical Corp
Lebanon, Turfmaster, (Melamine) Nu-Tech

Leffingwell
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Now, You Can Help Your Customers' Lawns Recover From Drought.

Fall Applications of Bio Groundskeeper™ for Thatch Reduction

For a healthy, disease resistant lawn that requires less watering, strip away the blanket of thatch that blocks water and nutrients.

Reducing thatch helps lawns recover from drought and combat winter stress. Spring application continues recovery and encourages your customers to renew your lawn care program.

Research at Michigan State University rated Bio Groundskeeper™ for Thatch Reduction most effective for reducing thatch. Easy to apply liquid is ALL NATURAL.

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So now you don't have to.

Until now, getting rid of ugly clumps of tall fescue was no easy task. The weed had to either be physically removed by digging or chemically removed by spot treating with a non-selective herbicide that left unsightly brown patches for weeks.

LESCO TFC™ Herbicide changes all that. It's the first product to provide selective spot control of tall fescue in established Kentucky bluegrass, fine fescue, bentgrass, bahiagrass and bermudagrass turf. Active at a rate of just a few ounces per acre, the convenient water dispersible granule formulation exhibits both contact and residual soil activity. It slowly eliminates tall fescue, while allowing the desirable grass to fill in.

For tall fescue control without the digging, make LESCO TFC Herbicide part of your application program.

Order today. Contact your LESCO sales representative, visit the nearest LESCO Service Center or call us toll free.

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LESCO, Inc., 20005 Lake Road, Rocky River, Ohio 44116 (216) 333-9250

Always read and follow label instructions before using any chemical product.

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Scotts TGR® Poa Annua Control has joined forces with the Penn Pals to help you win the war on Poa.

When you apply Scotts patented TGR Poa Annua Control to enemy-occupied territory, it weakens Poa annua, while Scotts controlled-release fertilizer helps surrounding bentgrass thrive and overtake the Poa.

On bentgrass fairways and greens, overseeding two weeks later with one of the Penn Pals (Penncross, Penneagle, PennLinks or Pennway blend*) helps speed up the transition

*Fairway use only.

The Scotts Tech Rep's Idea Of Overpowering Allies.

to desirable turf. Soon you can stand astride lush fairways and greens and declare total victory.

Your Scotts Tech Rep is ready, willing and able to help you plan your attack, and supply your TGR Poa Annua Control and creeping bentgrass needs.

For more information, contact your Scotts Tech Rep or simply call 1-800-543-0006. In Ohio, call collect: 513-644-2900.

Scotts®
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(tree & shrub special 25-15-10) Plant Marvel Nutriculture Formula
R G B Laboratories Inc
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Sierra
Agriform
Southern Mill Creek Products Co
Nutrex 20-20-20
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20-20-20
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Andersons
Tee Time
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W A Cleary Corp
(Mehyleneurea polymers) Fluf 18-0-0, Fluf 10-0-10
Doggett Corp
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Coron
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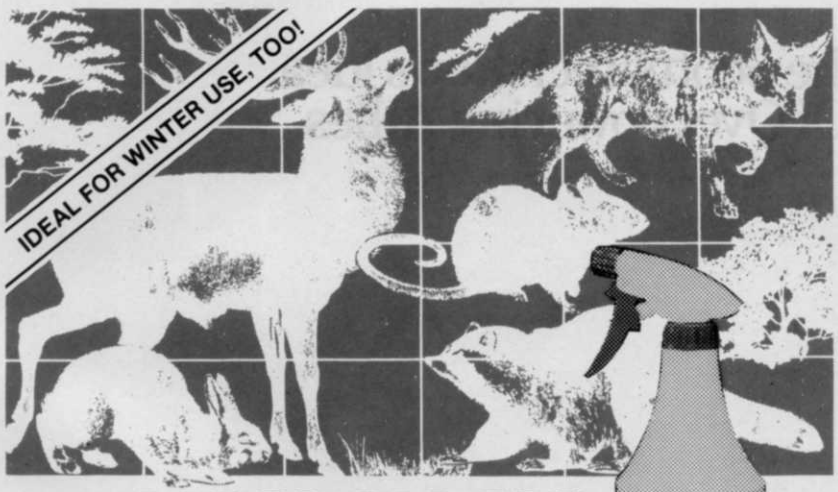

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(NPK urea) Vita Grow;
Growth Products Ltd
(26-0-0 Methylene diurea) Nitro-26 CRN
Hawkeye Chemical Co
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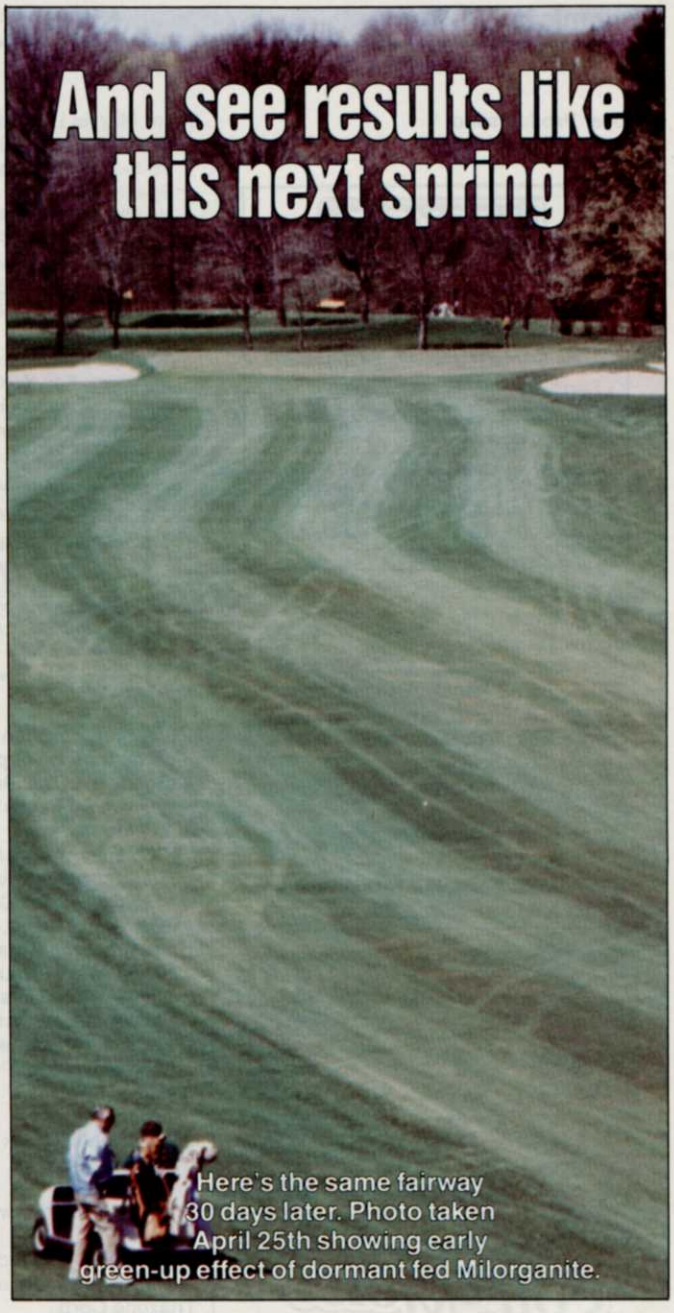
(Liquid NP-K) Turflo; (Dry N-P-K) Profit Blends

Circle No. 107 on Reader Inquiry Card

Dormant feed with Milorganite this fall,
#1 Fairway
Milwaukee Country Club
Milwaukee, Wisconsin
Dormant fed Milorganite - Photographed March 25th


And see results like this next spring
Here's the same fairway 30 days later. Photo taken April 25th showing early green-up effect of dormant fed Milorganite.

Why Dormant Feed Milorganite?

Reduce Operating Costs

You'll save time and money. Apply Milorganite in late fall for efficient labor and nutrient use. More time is available for you and your staff in late fall, and spring time crunches will be avoided when you dormant feed Milorganite.

The W.I.N. Factor

Dormant applied Milorganite does not burn, leach, or lose its nutritive value due to a 90% Water Insoluble Nitrogen (W.I.N.) factor.

Rich In Chelated Iron

Your turf will look great. Milorganite provides 4% min. iron and a full package of nutrients. That means an early spring green-up without excessive growth, with the iron content carrying the rich color well into the heat of summer.

NATURAL ORGANIC
Milorganite
FERTILIZER

America's Number One Naturally Organic Fertilizer

FREE LITERATURE

Mail in the coupon below for further information or call 414-225-2222.

☐ Milorganite's Iron — Technical Bulletin
☐ Please send other Milorganite Information

LM-S

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ADDRESS

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( )
PHONE #

Mail to: Milorganite • 735 N. Water St. • Milwaukee, WI 53202

Circle No. 147 on Reader Inquiry Card

continued

Moyer Products Inc
Lawn & Golf 16-6-8, Superblend 20-9-9

MOYER PRODUCTS
First in Service
Your full service turf and ornamental supplier:
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- Fungicides
- Safety Equipment

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Fremont, CA
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(415) 651-7332

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92704
(800) 223-4749
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Grow More
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(Primary, secondary micronutrients) Strengthen & Renew, Green Magic; (Organic micronutrients, plant/microbial by-products, enzymes) Vita Feed, Relief
NOR-AM Chemical Co
(Ureaform) Nitroform
Par Ex
(Isobutylidene Diurea) Par Ex
PBI-Gordon Corp
(Liquid-Iron & Sulphur, Urea) Ferrimec
(Processed cow slurry) Bov-a-Mura

- Stores water & nutrients.
- Helps control overwatering.
- Easy to use.
- Reduces soil compacting.

SOIL MOIST PLUS works unlike any other product to time release both water and nutrients into the soil. It absorbs excess water with an action similar to that of a sponge and when the surrounding soil becomes dry, the product discharges the water into the soil as needed. As water is released, nutrients are also released into the soil.

Write or call for free fact sheet.

JRM
JRM Chemical Division
110 West Streetsboro
Hudson, Ohio 44236
(216) 656-4010

Circle No. 130 on Reader Inquiry Card

Plant Marvel Laboratories Inc
(Bent special 28-8-18, Bermuda special 25-5-20, Lawn Marvel 28-18-8, Potach Special 10-20-30, Super Start 12-45-10, No Phosphate Special 25-0-25, Hi K Special 13-0-44) Plant Marvel Nutriculture Formula
Rhone Poulenc-Chipco Group
(Micronutrients) Microgreen
R G B Laboratories Inc
(Chelated micronutrients/phos-citrate) Agri-Plex For-X; (Chelated Iron/phosphate-citrate) Agri-Plex FE 8%; (Chelated Iron plus 8% sulfur) Lawn-Plex 8% FE

Unequaled Micronutrient Technology
RGB
LABORATORIES INC.
1531 Charlotte Street, Kansas City, Missouri 64108
Telephone: 816/474-3342

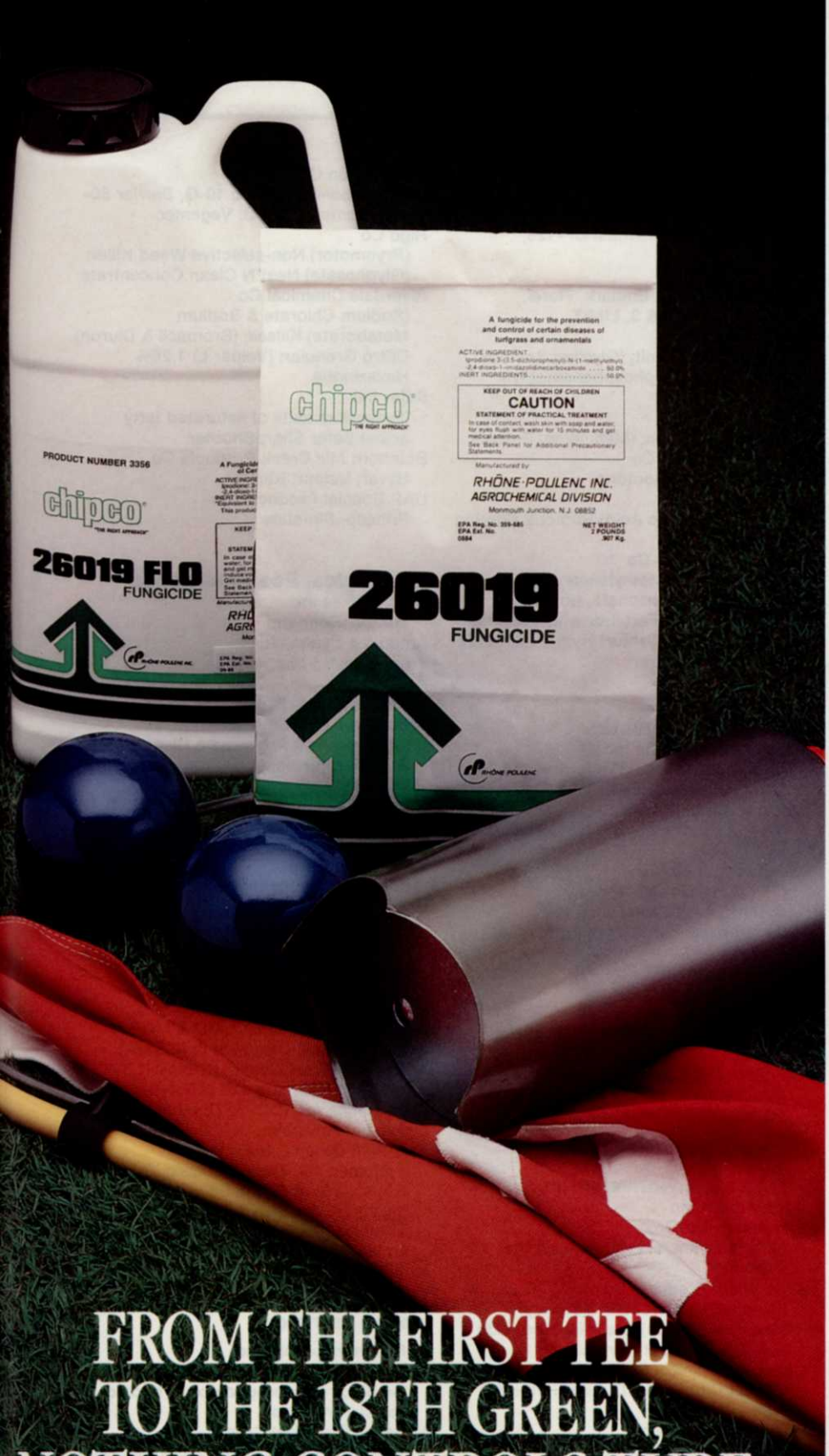
Ringer Corp
(Feather, soybean & bone meal, whear germ, muriate of potash, soil-micro-organisms) Turf Restore, Greens Restore & Greens Restore Super
Ruffin Inc
(Chelated granular & Liquid Micronutrients) Ruffin Tuff
O M Scott & Sons Co
(Methylene Ureas, Urea, Ammuniated phosphate, potassium sulfate) Proturf HD Fairway, Proturf Fluid Greens; (Sulfur-llated Ures, Urea, Ammuniated Phosphate, Potassium chloride) Proturf Fertizer; (Triazone, Urea, Potassium purophosphate) Proturf Fluid Fertilizer
Sierra
Agriform
Southern Mill Creek Products Co
Nutrex 20-20-20
Triazone Corp
(liquid urea triazone nitrogen source) N-Sure
UAP Special Products Inc
20-5-5 w Peudimethalin
Triazone Corp
(liquid urea triazone nitrogen source) N-Sure
Vigoro Industries Inc
(IBDU: IBDU/SCU, Escote) Par Ex
Warren's Turf Nursery Inc
(10-8-4(15) All Purpose Lawn Food; (6-20-20) Lawn Starter; (18-5-8) Slow Release; (25-3-9) Timed Released IBDU; (25-3-9) Weed & Feed

Fungicide, Tree

Elanco Products Co
(Fenarimol) Rubigan
Fermenta Plant Protection Co
(Chlorothalonil) Daconil 2787 Flowable, Daconil 2787 W-75
Kincaid Enterprises Inc
(Chloroneb) KE Terraneb SP
LESCO Inc
(Mancozeb) LESCO 4 80WP; (Maneb, Zinc) LESCO 4 Flowable with Zinc
Mallinckrodt Inc
(Zn, Mn, Thiophanate Methyl) Zyban
J J Mauget Co
(DEBC) Fungisol; (Oxycarboxin) Fungisol PV
Mobay Corp
(Triadimefon) Bayleton
Sierra
Duo San
Rhone Poulenc-Chipco Group
(Iprodione) Chipco 26019
Royalgard Products Co
(Thiophanate Methyl) Chariot; (Penncozeb) Shield
Safer Inc
Safer Garden Fungicide
Southern Mill Creek Products Co
Tersan 1991
Valent USA Corp
(Triforine) VALENT Triforine EC

Fungicide, Turf

J & L Adikes Inc
Benomyl, Bayleton, Tersan 1991
CelPril Industries
(Seed coating) Apron
Ciba Geigy Corp
(Metalaxyl) Subdue; (Propiconazole) Banner; (Metalaxyl/Mancozeb) Pace
W A Cleary Corp
(Thiram) Spotrete 75 WDG; (Thiophanate ethyl) 3336-WSB; (Phenylmercuric acetate) PMAS
E I DuPont de Nemours & Co
(Benomyl) Tersan 1991 DF; (Mancozeb) Tersan LSR
Elanco Products Co
(Fenarimol) Rubigan
Fermenta Plant Protection Co
(Chlorothalonil) Daconil 2787 Flowable, Daconil 2787 W-75
Gustafson Inc
(Metalaxyl) Apron-FL Seed Treatment Fungicide; (Thiram) Gustafson 42-S Thiram Fungicide & Repellent
Jonathan Green & Sons Inc
Banol, Bayleton 0.5% G Granular, Bayleton 25 WP, Chipco 26019 Flowable, Daconil 2787, Dyrene 4L, Rubigan A S Flowable, Tersan 1991
Hendrix & Dail Inc
(Chloropicrin) HD—Pic Fumigant
Lebanon Chemical Corp
(Bayleton) Lebanon; (Chlorothalonil) Green Gold, Lebanon
LESCO Inc
(Mancozeb) Lesco (PCNB) LESCO PCNB 10%; LESCO 1.0% Bayleton; (Thiram) LESCO Thiram 75DG; LESCO Benomyl DG
Mallinckrodt Inc
(Mercuric Chloride, Mercurous Chloride) Calo-Clor, Calo-Gran; (Cadmium Succinate) Cadminate; (ZN, Mn EBCD, Thiophanate Methyl) Duosan; (Thiophanate Methyl) Fungo 50; (Cadmium Sebecate, Potassium, Chromate, Thiram) Kromad; (Ethazol) Koban 30, Koban 1.3G; (Thiram) Thiramad
Mobay Corp
(Triadimefon) Bayleton; (Anilazine) Dyrene



FROM THE FIRST TEE TO THE 18TH GREEN, NOTHING CONTROLS TURF DISEASES LIKE CHIPCO® 26019.

FUNGICIDE

For season-long, full-course protection, base your disease control program on CHIPCO 26019 fungicide.

When it comes to season-long, full-course protection, more and more superintendents are building their disease control programs around CHIPCO 26019 fungicide. That's because CHIPCO 26019 fungicide offers more important features than any other turf fungicide.

First of all, CHIPCO 26019 fungicide provides unsurpassed control of all major turf diseases: Helminthosporium Leaf Spot and Melting Out, Dollar Spot, Brown Patch, Fusarium Blight and Red Thread. Plus, CHIPCO 26019 fungicide protects against Pink and Gray Snow Mold as well as Fusarium Patch.

Secondly, CHIPCO 26019 fungicide delivers the longest-lasting disease control you can buy. Just one application protects your turf up to four full weeks.

Based on cost per day of control, CHIPCO 26019 fungicide ranks as your best fungicide value. That makes it the ideal replacement for fairway disease control.

You'll also like the fact that CHIPCO 26019 is easy on the environment, with no phytotoxicity. And now you can choose between two convenient formulations—wettable powder or flowable.

This season, cover your course with the best in disease control. CHIPCO 26019 fungicide.

Rhone-Poulenc Ag Company, CHIPCO Department, P.O. Box 12014, Research Triangle Park, NC 27709.

CHIPCO® 26019

FUNGICIDE

RHÔNE-POULENC AG COMPANY

Please read label carefully and use only as directed.
CHIPCO® is a registered trademark of Rhone-Poulenc.

Circle No. 163 on Reader Inquiry Card

continued

NOR-AM Chemical Co
(Propamocarb) Banol
PBI Gordon Corp
(Chloroneb) Teremec SP (Fore) Formec 80
Rhone Poulenc-Ag Co
(Iprodine) Chipco 26019; (Aluminum Tris) Chipco Aliette

CHIPCO® 26019
brand fungicide—
long lasting control of most major turf diseases.

CHIPCO® ALIETTE®
brand fungicide—
A firm foundation for your Pythium control program.

Rigo Co
(Chlorothalonit) Lawn & Garden Fungicide
Ringer Corp
(Bacterial type) Turf Restore
Royalgard Products Co
(Thiophanate Methyl) Chariot; (Penncozeb) Shield
Safer Inc
(Sulfur) Safer Garden Fungicide
O M Scott & Sons Co
(Thiophanate-methyl, Iprodione) Proturf Fluid Fungicide; (PCNB) Proturf FF II; (Tiliadimefon, Metalaxyl) Proturf Fluid Fungide II;
Sierra
(Topsom M) Rungo; (Vinclzalin) Vorlan; (Dithane, Topsin M) Duo San; (Mercuril & Mercuroys Chloride) Calo-Clor & Calo-Gran; (Thiram) Thiramad; (Etridiazole) Koban
Southern Mill Creek Products Co
Daconil 2787; W-75; Chipco 26019; Dithane F-45
UAP Special Products Inc
(PCNB) Nancozels

Grass Coatings

CelPril Industries
Nutri-Kote, Nutri-Kote & Apron

Growth Regulator

Abbott Laboratories
(Gibberellic acid) PRO-GIBB
Arborchem Products Co
(Paclobutrazol) Clipper; (NAA, ethyl ester) Sprout Gard; (Metsulfuron Methyl) Escort; (Chlorsulfuron) Telar
Chevron Chemical Co
(Uniconizole) Ortho Prunit
Elanco Products Co
(Flurprimidole) Cutless; (Ancymidol) A Rest
Fermone Chemicals Inc
(Cytokinins) Burst Yield Booster
Jonathan Green & Sons Inc
Limit Growth Regulator
Leffingwell Uniroyal Chemical
(Chlorflurenol) Maintain CF-125, Maintain A
LESCO Inc
Alar 85, A-Rest, Embark, Florel, Hormodin 1, 2, & 3, LIMIT
Monsanto Co
(Amidochlor) Limit; (Glycine, Sodium Sesquisalt of N-phosphonomethyl) Manage
PBI-Gordon Corp
(Atrinal) Attrimec; (Mefluidide) Embark
Rhone-Polenc Ag Co
Chipco Florel. Rootone
Rigo Co
(Naphthaneicetic Acid) Rootone Rooting Hormone
O M Scott & Sons Co
(Paclobutazol, Methyleneureas, ammuniated phosphate, potassium sulfate) Proturf Fertilizer with TGR Pla annual control, Proturf Hybrid Bermuda TGR Plus Fertilizer

Herbicides, Aquatic

Applied Biochemists Inc
(Diquat Dibromide) Weedtrine-D; (2,4-D granular) Weedtrine II
Chevron Chemical Co
(Diquat Dibromide) Diquat Herbicide-H/A
Elanco Products Co
(Fluridone) Sonar
Monsanto Agricultural Co
(Isopropylamine salt of Glyphosate) Rodeo
Rhone-Poulenc AG Co
Aquakleen
Riverdale Chemical Co
(2,4-D) 2,4-D Granules, Weedestroy AM-40
Southern Mill Creek Products Co
Aquozine; Aquathol K; Hydrothol 191; Rodeo

Herbicides, Nonselective

J & L Adikes Inc
Ureabor, No-Gro
American Cyanamid Agricultural Div
Arsenal
Arborchem Products Co
(Bromacil) Arborchem Clearway; (Bromacil/Diuron) Granular Herbicide Rail-X & Granular Herbicides
Chevron Chemical Co
(Diquat Dibromide) Diquat Herbicide-H/A
Elanco Products Co
(Tebuthiuron) Spike
Hoechst-Roussel Agri-Vet Co
(Glufosinate-ammonium) Ignite Herbicide
Jonathan Green & Sons Inc
Round-up
LESCO Inc
(Sodium metaborate tetrahydrate, sodium chlorate, bromacil) Lescobar
Monsanto Agricultural Co
(Isopropylamine salt of Glyphosate) Roundup & Nomix
PBI-Gordon Corp
(Dichlobenil) Nordsac 10-G, Barrier 50-W; (Prometon 2,4-D, Vegemec
Rigo Co
(Pryomotor) Non-selective Weed Killer; (Glyphosate) Neat'N Clean Concentrate
Riverdale Chemical Co
(Sodium Chlorate & Sodium Metaborate) Killsall; (Bromacil & Diuron) DiBro Granular; (Velpar L) 1.25% Hexazinone
Safer Inc
(Potassium salts of saturated fatty acids) Safer SharpShooter
Southern Mill Creek Products Co
Hyvar; Velpar; Karmes
UAP Special Products Inc
Princep, Simatine

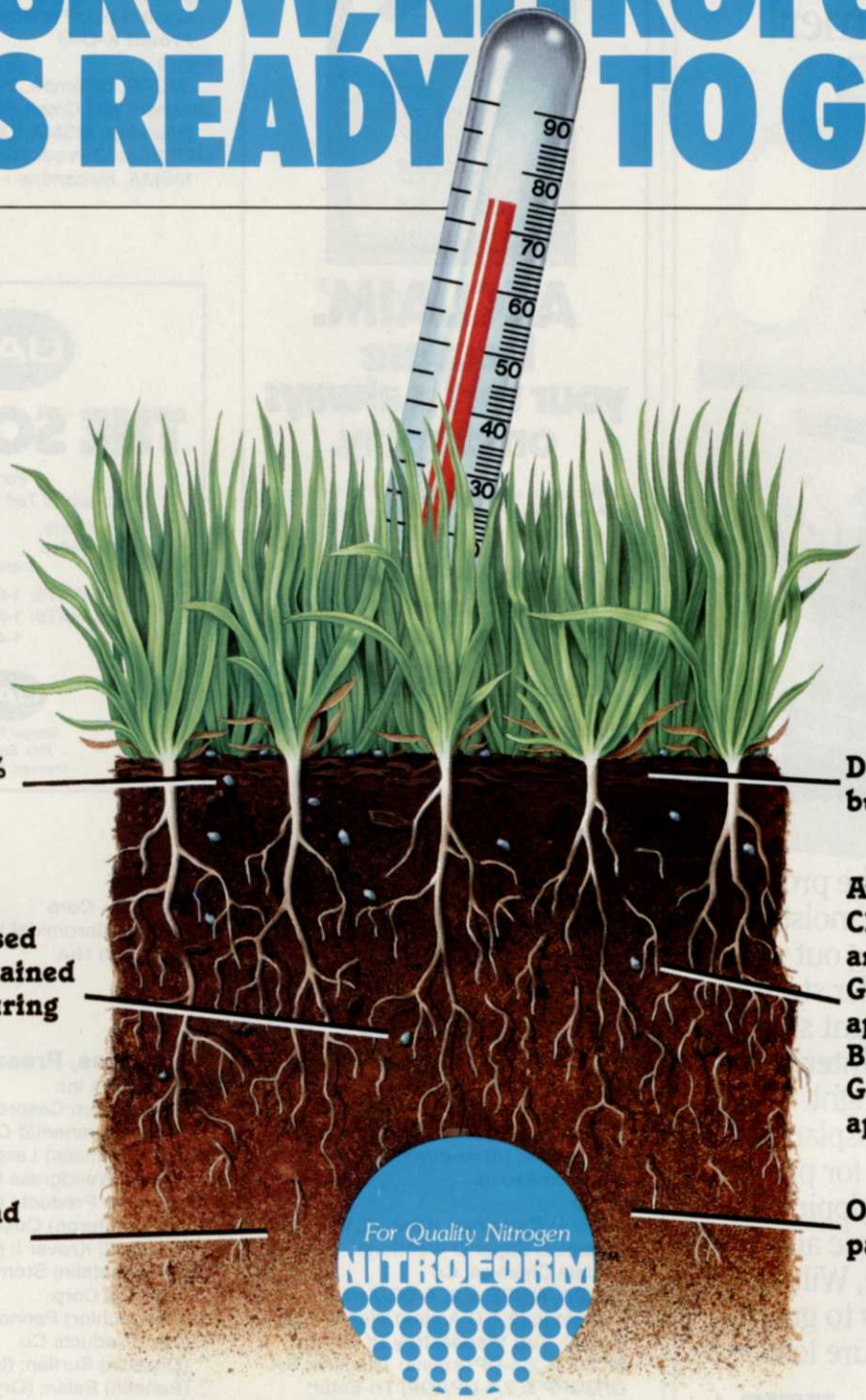
Herbicides, Postemergence

J & L Adikes Inc
Trimec, Roundup
American Cyanamid Co
(Imazaquiw) Image 1.5
Andersons
(Chlorflurenol) Break-Thru
Arborchem Products Co
(4% Bromacil) Arborchem Clearway Granular; (Bromacil/Diuron) Rail-X Granular
BASF Corp
(Sethoxydim) Poast; (bentazen) Basagran
W A Cleary Corp
(Disodium methanearsonate) Methar 30
Dow Chemical USA
(Triclopyr ester + 2,4-D) Turflon D; (Triclopyr ester) Turflon Ester; (Triclopyr amine) Turflon Amine; (Triclopyr Amine + 2,4-D) Turflon II
Fermenta Plant Protection Co
(Dimethylene salt of 2,4-D & MCPP) 2+2; (MSMA) Daconale 6; (MSMA) Bueno 6 (West Coast); (N-oleyl-1,3-propylene diamine salt of 2,4-D) Dacamine 4D; (DCPA) Dacthal W-75, Dacthal Flowable
Jonathan Green & Sons Inc
Dyclomec 4G, Trimec Classic, Super Trimec, Weed-E-Rad 360 DSMA; Basagran, Acclaim 1 EC, Trimec Granules, Turflon D, Weedone DPC Amine
Hoechst-Roussel Agri-Vet Co
(Fenoxaprop-ethyl) Acclaim 1EC

SEE AD NEXT PAGE

LaRoche Industries Inc
(Trimene, Dichlorophenoxyacetic acid, 2-methyl-4-Chlorophenoxy proponic acids) Vertagreen
Lebanon Chemical Corp
(2,4-D & MCPP) Lebanon, Country Club, Green Gold, Turfmaster
LESCO Inc
(2,4-D & 2,4-DP)LESCO, LESCO Weedone DPC; (2,4-D, MCPP & dicamba) LESCO Three-Way; (2,4-D) LESCO A-4D; (MCPP) Lescopex; (MCPP, 2,4-D) Lescopar; (2,4-D & dicamba) LESCO Dicamba plus 2,4-D Amine, LESCO Eight-One; (MSMA) LESCO MSMA 6.6; (Bromoxynil) LESCO Brominal

WHEN TURF IS READY TO GROW, NITROFORM® IS READY TO GO



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Nitrogen released slowly for sustained turf feeding during active growth periods

Nonburning and nonleaching

Decreased thatch build-up

Available in Blue Chip®, Gray Chip™ and new Blue Granular™ for dry application; Powder Blue® and Powder Gray™ for spray application.

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NOR-AM

NOR-AM CHEMICAL COMPANY

3509 Silverside Road, P.O. Box 7495, Wilmington, DE 19803

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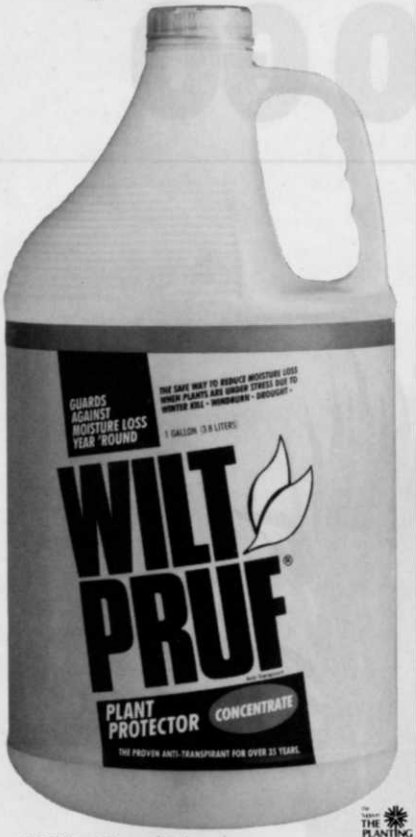
Used by nurserymen and landscapers for over 40 years... A proven performer!



Wilt-Pruf® is the proven way to reduce moisture loss and drying out when plants are under stress due to transplant shock, summer or winter windburn and drought. Use whenever transplanting. Also excellent for protection during shipping and storage. Organic and biodegradable, Wilt-Pruf is the safe way to guard against moisture loss year 'round.

Order Wilt-Pruf from your distributor today.

WILT PRUF® ANTI-TRANSPIRANT

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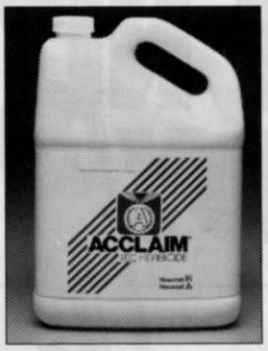
203/531-4740

Circle No. 175 on Reader Inquiry Card

Chemicals

continued



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Hoechst Roussel

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Mallinckrodt Inc
(Dicamba, 2,4-D, MCRP) Trexsan
Mobay Corp
(metribuzin) Sencor
Monsanto Agricultural Co
(Glyphosate, Isopropylamine Salt Of) Roundup & Nomix
Nature's Touch
(2,4-D + MCPP) D-Weeder 4X
NOR-AM Chemical Co
(Ethofumesate) Prograss
PBI-Gordon Corp
(Esters of 2,4-D & 2,4-DP + Dicamba) Super Trimec; (2,4-D, MCPP + Dicamba) Trimec; (Dichlobenil) Dyclome 4-G, Norsac 4-G
Rhone-Poulenc-Ag Co
(2,4-D, 2,4-DP) Chipco Weedone DPC & with Amine; (Bromoxynil) Buctril; (Asulam) Asulox
Rigo Co
(MSMA) Crabgrass Killer; (2,4-D, Dicamba) Super D Weedone
Riverdale Chemical Co
(MCPA, MCPP & 2, 4-DP/Amine) Triamin II; (2,4-D Amine) Weedestroy AM-40, Turf Weedestroy D; (2,4-D, MCPP & 2,4-DP/Amine) Triamine; 2,4-D/MCPP & 2,4-DP/IOE) Tri-Ester; (MCPA, MCPP & 2, 4-DP/IOE) Tri-Ester II; (2,4-D & 2,4-DP/IOE) Turf D + DP, Brush Killer; (Mecoprop/Amine) Weedestroy MCPP, MCPP-4; (Mecoprop/ IOE) MCPP L.V. Ester; (2,4-D & Dichlorprop) 2 D + 2 DP Amine; (Dichlorprop/IOE) DP 4 Ester
Royalgard Products Co
(2,4-DP, MCPP, MCPA) Sabre
O M Scott & Sons Co
(2,4-D, MCPP & Dicamba) ProTurf Fertilizer with Dicct weed Control III; (Atrazine, Methylene ureas, Urea, Ammuniated Phosphate, Muriate of potash) Proturf St Augustine Weed Control plus Fertilizer; (Dicamba) Proturf K-O-G
Sierra
(MCPP, Dicamba, 2-4 D) Tres-San
Southern Mill Creek Products Co
Roundup; MSMA 6.66
UAP Special Products Inc
MSMA, Mecamine - D, Four Power Plus

UAP

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Professional Turf Care Products

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Herbicides Fungicides
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1-402-727-8689

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P.O. Box 1467
Fremont, NE 68025

Valent USA Corp
(Diquat dibromide) Valent Diquat Herbicide HIA

Herbicides, Preemergence

J & L Adikes Inc
Balan, Team Casoron, Treflan
American Cyanamid Co
(Pendimrthalin) Lesco Pre-M 60DG, Scott's Weedgrass Killer
Arborchem Products Co
(Sulfometuron) Oust; (Diuron & Bromacil) Krovar I; (Oryzlan) Surflan AS; (Pendimethlin) Stomp
Ciba Geigy Corp
(Metalachlor) Pennant
Elanco Products Co
(Oryzalin) Surflan; (Isoxaben) Gallery; (Benefin) Balan; (Oryzalin, Benefin) XL; (Benefin, Trifluralin) Team; (Isoxaben + Oryzalin, Isoxaben + Trifluralin) Snapshot
Fermenta Plant Protection Co
(DCPA) Dacthal Flowable, Dacthal W-75
Jonathan Green & Sons Inc
Balan, Ronstar G, Dacthal 5G, Dyclomec 4G, Surflan, Team 2% G, Treflan 5G

How to prepare your turf for a winter vacation before autumn leaves.

Before your turf takes a winter vacation, treat it to a full-course meal of Country Club Fall Fertilization Products.

Country Club 8-4-24, 13-25-12 and 18-0-18 fertilizers are specially formulated to revitalize your turf after summer's stress and prepare it for the winter months ahead. High in phosphorus, potassium and other nutrients, these homogeneous fertilizers will provide a balanced feeding to help increase plant vigor, improve disease resistance and assure winter hardiness.

When your turf returns in the spring, it will be well nourished and rested, thicker and greener—ready to take on your course's toughest assignments.

For more information on our premium quality Country Club Fall Fertilization Products and our early order program, phone your local Lebanon distributor today. Or call our Greenline at 1-800-233-0628 or 1-717-273-1685.

Lebanon
TOTAL TURF CARE
A division of Lebanon Chemical Corporation
P.O. Box 180 • Lebanon, PA 17042

Circle No. 140 on Reader Inquiry Card

continued

LaRoche Industries Inc
(Team, Balan, Surflan, Ronstar) Vertagreen
Lebanon Chemical Corp
(Benefin) Country Club, Lebanon, Turfmaster, Green Gold; (Bensulide) Lebanon, Country Club; (DCPA) Lebanon, Country Club; (Oxidiazon) Country Club; (Benefin & Trifluralin) Country Club, Green Gold; (Trifluralin) Lebanon, Green Gold; (Siduron) Lebanon, Green Gold
LESCO Inc
(Sulfonylurea) LESCO TFC
Mallinckrodt Inc
(Bensulide) Presan
Mobay Corp
(metribuzin) Sencor
NOR-AM Chemical Co
(Ethofumesate) Prograss
PBI-Gordon Corp
(Dichlobenil) Norosac 4-G, Dyclomec 4-G; (Bensulide) Bensumec 4LD
Rhone-Poulenc Ag Co
(Oxadiazon) Chipco Ronstar

CHIPCO® RONSTAR®
brand herbicide—
effective, long-lasting
preemergent weed control
without root pruning.

Royalgard Products Co
(Benzulide) Roysan
O M Scott & Sons Co
(Pendamethalin, Methylene urea) ProTurf HD Fertilizer Plus Turf Weedgrass Control
Sierra
(Betasan) Pre-San
Southern Mill Creek Products Co
Ronstar
UAP Special Products Inc
Betasan, Dacthal, Weedgrass Control

Insecticides, Tree

Abbott Laboratories
(Bacillus thuringiensis) DIPEL
J & L Adikes Inc
(Sevin, Malathion, Methoxychlor) Gro-Well
Chevron Chemical Co
(Acephate) Orthene 75S
Creative Sales Inc
(Acephate) Acecap
Kincaid Enterprises Inc
(Methoxychlor) KE Marlate 50
LaRoche Industries Inc
(Malathion) Vertagreen
LESCO Inc
(Diazinon) LESCO Diazinon 500; (Chlorpyrifos) LESCO Dursban 2.32G
Mallinckrodt Inc
Bendiocarb, Dycarb, (Diazinon & Methoxyclor) Dymet; (Bendiocarb) Dymet
J J Mauget Co
(Oxydemeton-methyl) Inject-A-Cide; (Dicrotophos) Inject-A-Cide B
Mobay Corp
(Disulfoton) Di Syson; (Trichlorfon) Dylox; (Azinphos-methyl) Guthion; (Oxydeneton-methyl) Metasystox-R; (cyfluthrin) Tempo
NOR-AM Chemical Co
(Bendiocarb) Turcam & Turcam 2-1/2G
PBI-Gordon Corp
(Fenitrothion) Pestroy
Prentiss Drug & Chemical Co
(Methoxychlor) Prentox 2lb Methoxychlor Spy; (Diazinon) Pentox Diazinon AG-500; (Chlorpyrifos) Pentox Dursban 2E
Reuter Laboratories Inc
(Potassium salts of fatty acids) Aphid-Mite Attack Concentrate
Rhone-Poulenc Ag Co
(Carbaryl) Chipco Sevin SL
Royalgard Products Co
(Carbaryl) Sevin Flowable
Safer Inc
(Potassium salts of fatty acids) Safer Insecticial Soap
O M Scott & Sons
(Pendimethalin) Proturf Turf Fertilizer Plus Preemergent Weed Control; (Pendimethalin) Proturf GO WDG; (Siduron) Proturf Starter Fertilizer with Preemergent Weed Control
D B Smith & Co
DIPEL
Southern Mill Creek Products Co
Mavrik; Sevin
UAP Special Products Inc
Malatihien, Diazinon, Methoxychlor
Valent USA Corp
(Naled) DIBROM 8 Emulsive; (Lindane) VALENT Lindane #200 Spray; (Acephate) ORTHENS Turf, Tree & Ornamental Spray
Zoecon Corp-Sandoz Crop Protection Corp
(Fluvalinate) Mavrik Aquaflow

Insecticides, Turf

Abbott Laboratories
(Bacillus thuringiensis) DIPEL
J & L Adikes Inc
Oftanol, Dylox
American Cyanamid Agriculatural Div
(Dimethoate) Cygon
Andersons
Tee Time
Chevron Chemical Co
(Acephate) Orthene 75S
Ciba Geigy Corp
(Isazofos) Triumph
W A Cleary Chemical Co
Sevin SL; Dursban 2E, 4E, 50WP, 50WSB
Cumberland Intl Corp
(Carbaryl) Crunch
Dow Chemical USA
(Chlorpyrifos) Dursban
Jonathan Green & Sons Inc
Diazinon 5%G & 14%G, Dursban 2.32%G, Oftanol 1.5% & 5%G, Mocap 10%G, Dylox 5%G, Proxol 80 SP; Sevin 4L, Turcam 2.5G
Kincaid Enterprises Inc
(Methoxychlor) KE Marlate 50
LaRoche Industries Inc
(Trichlorofon 6.2, Diazinon 5%, Dursban 2.32, 1-Naphthyl, N-methylcarbamate) Vertagreen
Lebanon Chemical Corp
(Chlorpyrifos) Country Club, Green Gold, Turfmaster, Lebanon; (Isofenfos) Lebanon, Country Club; (Dimethyl Phosphonate) Lebanon; (Diazinon) Lebanon
LESCO Inc
(Trichlorfon) LESCO Dylox 5G; (Diazinon) LESCO Diazinon 500, 5G & 14G; (Chlorpyrifos) LESCO Dursban 2.32G; (Isofenphos) LESCO Oftanol 1.5G; (Carbaryl) LESCO Sevin Brand SL
Maag Agrochemicals Inc
(Fenoxycarb) Logic
Mallinckrodt Inc
Diazinon & Methoxyclor, Dymet
Mobay Corp
(Trichlorfon) Dylox; (Isofenphos) Oftanol; (Cyfluthrin) Tempo
NOR-AM Chemical Co
(Bendiocarb) Turcam; (Trichlorfon) Proxol
PBI-Gordon Corp
(Carbaryl) Carbanec; (Fenoxicarb on vegetable oil-coated expanded corn grit) Logic Fire Ant Bait
Prentiss Drug & Chemical Co
(Chlorpyrifos) Prentox Dursban 2E
Reuter Laboratories Inc
(Spores of bacillus popilliae Dutky) Grub Attack
Rhone-Poulenc Ag Co
(Ethoprop) Chipco 10G; (Carbaryl) Chipco Sevimol & Sevin SL

CHIPCO® SEVIN® SL
brand carbaryl insecticide—
effective, economical
and environmentally
favorable control of
grubs and many other insects.

Rigo Co
(Diazinon) Diazinon 2E; (Oftanol) Turf Saver; (Avermectin) Affirm Fire Ant Bait
Safer Inc
(Potassium salts of fatty acids) Safer Insecticidal soap moss killer for lawns
O M Scott & Sons Co
(Chlorpyrifos) ProTurf Fertilizer Plus Insecticide III; (Diazincn) Insecticide I; (Isofenfous) Insecticide IV
D B Smith & Co
(resmethrin) BURGESS
Southern Mill Creek Products Co
Dursban 2E; Diazinon 4E
Southern Mill Creek Products Co
Dursban 2E; Diazinon 4E
UAP Special Products Inc
(Bendiocarb) Turcam-Sevin Granuals, Carbaryl, Diazinon White Grub Gran
Valent USA Corp
(Acephate) ORTHENE Turf, Tree & Ornamental Spray; (Methiocarb) SLUG-GETA Granules and Snail & Slug Bait pelleted
Zoecon Corp-Sandoz Crop Protection Corp
(Fluvalinate) Mavrik Aquaflow

Handle your grub situation fast, before things get really ugly.

At the very first sign of grub damage, apply DYLOX® insecticide. Nothing kills all species of white grubs faster. Within hours, the grubs are dying and the turf is recovering.

When grubs threaten, act fast. Use DYLOX. And turn an ugly little problem into a lot of beautiful turf.

For more information, contact Mobay Corporation, Specialty Products Group, Box 4913, Kansas City, MO 64120.

Dylox

Mobay Corporation

A Bayer USA INC. COMPANY

Bayer MOBAY

DYLOX is a Reg. TM of Bayer AG, Germany 44131

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continued

Miticides

Fermone Chemicals Inc
(Mite pheromone) Stirrup
Mobay Corp
(Oxythioquinox) Morestan
Safer Inc
(Potassium salts of fatty acids) Safer Mile Killer
Southern Mill Creek Products Co
Deltic
Zoecon Corp-Sandoz Crop Protection Corp
(Dienochlor) Pentac Aquaflow

Mulches & Erosion Control

Cellin Mfg Inc
Cellin Fiber Mulch, Cellin-K, Cellin Seal
Finn Corp
Fiber Plus; Hydro Stik
Grass Growers Inc
Terra Tack I, III, AR, MP
Jacklin Seed Co
Jacklin Organic Mulch
Jonathan Green & Sons Inc
J G Hydro Seeding Fibermulch, Curlex Erosion Control Blanket, Jute Netting, Cellins Fibermulch
Hoechst Celanese Corp
(100% Polyesther fibers) Earth Blanket
Nepera Inc
(Potassium Propenoate-Propenamide Copolymer) Viterra Gelscape
North American Green Inc
(Agricultural wheat straw, coconut fibers or combination of both) North American Green
Paygro Co
Paygro Hardwood Mulch
PRSM
(Vegatative gum based tachifien) MulchMate Tackifier; (Wood cellulose based fiber mulch) Quickseed Hydrodeeding mulch
Reemay Inc
Typar
Reinco Inc
Reinco Mulch binder plus tackifier
Soil Seal Corp
(Copolymer based) Soil Seal

SOIL SEAL CONCENTRATE
-A Soil Stabilizer-
SLOPE STABILIZATION
DUST ABATEMENT
TRACKIFIER
Soil Seal Corporation
1111 W. Sixth Street
Los Angeles, CA 90017
213-481-7185

Warren's Turf Nursery Inc
Warren's Terrabond Polyester Geotextile Fabrics

Nematicides

Mobay Corp
(fenamiphos) Nemacur
Rhone Poulenc-Chipco Group
(Ethoprop) Chipco Mocap
Southern Mill Creek Products
Mocap; Nemacur

Penetrant, Metal

LESCO Inc
(petroleum based) Lesco 4-Way Lubricant
Precision Laboratories Inc
(Penetrating oil) Penetral; (Penetrating grease) Lube-2

Pesticides, Biological

Igene Biotechnology Inc
(Chitin-protein Nematicide) ClandoSan
KLM Bio Systems Inc
Bio Groundskeeper

Repellents, Animal

Burlington Bio-Medical & Scientific Corp
Ro-Pel
W A Cleary Corp
(Thiram) Spotrete 75 WDG
Leffingwell
Hinder

Soil Amendments

Aquatrols Corp of America Inc
(Copolymer Acrylamide Acrylate) Supersorb
Doggett Corp
(Elemental sulfur) Nutri-Sul 90
Finn Corp
Hydro Gel
Grass Growers Inc
Terra Tack I, III, AR, MP
Jonathan Green & Sons Inc
Micro-Green Micro Nutrients
Green Pro Services
(Humus) Vita Build
KLM Bio Systems Inc
Bio Groundskeeper
LESCO Inc
(ferment & polymers) Lescozyme
Moyer & Sons Inc
(Chelated Iron) Microflo
Nacco
Soil Penetrant, Dust Binder, Spreader 79
Nature's Touch
(Plant/microbial by-products, enzymes, wetting agents) Nutra-Aid; (plant/microbial by-products, enzymes, wetting agents; organic micronutrients) Relief
Nepera Inc
(Potassium Propenoate-Propenamide Copolymers) Viterra Gelscape
PBI-Gordon Corp
(Processed cow slurry) Bov-A-Mura
Plant Marvel Laboratories Inc
(Soltrace, Mag-Iron, 13% Iron, Chemel) Plant Marvel
PRSM
(Sewage sludge based soil amendment) Earthlife compost

Soil Conditioner

American Pelletizing (AMPEL)
(Pelletized lime & gypsum) Reveille; (Pelletized lime) Gran U Lime
W A Cleary Corp
(Calcium Sulfate Gypsum F
JRM Chemical
Soil Moist Plus
Kalo Inc
(Polyoxyethylene polypropoxy-propanol, Alkyl 2-exhoxy-ethanol) Hydro-Wet Turf/Soil Wetting Agent
LESCO Inc
(ferment & polymers) Lescozyme
Milorganite
(N,P & iron with micro's) Miolorganite
Nalco Chemical Co
Nalco 2190
Nature's Touch
(Plant/microbial by-products, enzymes) Nutra-Aid
Nepera Inc
(Potassium Propenoate-Propenamide Copolymer) Viterra Gelscape
Precision Laboratories Inc
(Calcium) Liqui-Cal
Reinco Inc
Reinco Mulch binder plus tackifier
Ringer Corp
(Feather, soybean & bone meal, wheat germ, muriate of potash, soil-micro-organisms) Flower & Foliage, Turf, Greens Restore & Greens Restore Super

Soil Fumigants

American Pelletizing (AMPEL)
(Pelletized Gypsum) Cal Sul
BASF Corp
(dazomet) Basamid
Hendrix & Dail Inc
(Methyl Bromide/Chloropicrin) MBC, MBC concentrate, MBC-33
LaRoche Industries Inc
Vertagreen
Rigo Co
(Vapam) Wilbur-Ellis Soil-Prep
Southern Mill Creek Products Co
Bromogas
Trebor Corp
(Activated Flowable Charcoal) Flowable charcoal
UAP Special Products Inc
Basamid

Sticker/Extender

Arborchem Products Co
(Proprietary) Clean Cut
Chevron Chemical Co
(Alkyl olefin aromatic polymers) Chevron Spray Sticker
W A Cleary Corp
Super-Wet, Super-Wet 15G
Jonathan Green & Sons Inc
Exhalt 800 Spreader Sticker
LESCO Inc
LESCO Spreader Sticker
Precision Laboratories Inc
(Non-ionic spreader/sticker) Chem-Stik
Rigo Co
(Polyoxpropylene propanol) Wilbur-Ellis R-56; (Octyl Phenoxy Polyethoxy

continued

Ethanol) Wilbur-Ellis R-11; (Alky Aryl Polyoxyethylene Ether) Red Top Super Spread 200
Southern Mill Creek Products Co
(Isooctyl phenyl polyethoxy ethanol) SMCP
UAP Special Products Inc
Bond
Wilt-Pruf Products Inc
Spray-Stay

Tree Dressings

J & L Adikes Inc
Gro-Well
Arborchem Products Co
(Liquid asphalt, NAA, mineral spirits, chlorothene) Arbochem Sprout Gard
LESCO Inc
LESCO Pruning Paint

Wetting Agents

Aquatrols Corp of America
(Blend of polyoxyethylene esters of cyclic acids & alkylated phenols) Aqua-Gro
Arborchem Products Co
(Proprietary) Arborchem
Chevron Chemical Co
(Alkylarylpolyoxyethylene, glycols, free fatty acids & isopropanol) Ortho X-77
W A Cleary Chemical Co
Super Wet, Super Wet 15G
Elanco Products Co
Improve
Jonathan Green & Sons Inc
Aqua-Gro
Green Pro Services
Vita Flow
Kalo Inc
(Polyoxyethylene polypropoxy-propanol, Alkyl 2-exhoxy-ethanol) Hydro-Wet Turf
Leffingwell
(Non-ionic surfactants) Activate
LESCO Inc
LESCO-WET
Mallinckrodt Inc
Aquagro
Nacco
Wetting Agent
Nature's Touch
(Plant/microbial by-products, enzymes) Nutra-Aid
PBI-Gordon Corp
(Oxyetheylene) Aqua-Zorb
Precision Laboratories Inc
Pen-A-Trate
Royalgard Products Co
(Non-Ionic) Aquagard
Sierra
Hydraflo
Southern Mill Creek Products Co
SMCP Wetting Agent Concentrate
UAP Special Products Inc
Activator 90, LI 700
Valent USA Corp
(potassium abietate, potassium oleate, iso-octyl phenoxypoly-ethoxy ethanol) VALENT Spreader; (Alkylarylpolyoxyethylene, glycois, free fatty acids, isopropanel) VALENT X-77 Spreader

4. Chemical Companies

Abbott Laboratories
14th & Sheridan Rd
North Chicago IL 60064
312-937-6100

J & L Adikes Inc
182-12 93rd Ave
Jamaica NY 11423
718-739-4400

Agri-Diagnostics Assocs
2611 Branch Pike
Cinnaminson NJ 08077
609-829-0110

Agro-Chem Inc
See Nature's Touch

American Cyanamid Co
One Cyanamid Plaza
Wayne NJ 07470
201-831-2000

American Pelletizing (AMPEL)
13 Island Dr
Brick NJ 08724
201-899-2499

Andersons
1200 Dussel Dr
Maumee OH 43537
419-893-5050

Applied Biochemists Inc
5300 W County Line Rd
Mequon WI 53092
414-242-5870
800-558-5106

Aquashade Inc
PO Box 198
Eldred NY 12732
914-557-8077

Aquatrols Corp of America
1432 Union Ave
Pennsauken NJ 08110
609-665-1130

Arborchem Products Co
PO Box 1567
Fort Washington PA 19034
215-659-7922

Arcadian Corp
PO Box 265
Parsippany NJ 07054
201-829-6500

BASF Corp
100 Cherry Hill Rd
Parsippany NJ 07871
201-316-3000

Becker-Underwood Inc
701 Dayton Rd
Ames IA 50010
515-232-5907

★ Burlington Bio-Medical & Scientific Corp
91 Carolyn Blvd
Farmingdale NY 11735
516-694-9000

Cellin Mfg Inc
9610 Gunston Cove Rd
Box 224
Lorton VA 22079
703-690-1195

CelPril Industries
251 Oak St
Manteca CA 95336
209-823-1738

Chevron Chemical Co
Agricultural Chemicals Div
575 Market St
San Francisco CA 94105
415-894-6219

Ciba Geigy Corp
Turf & Ornamental Products
PO Box 18300
Greensboro NC 27419
919-292-7100

W A Cleary Corp
1049 Somerset St
Somerset NJ 08873
201-247-8000

Coron
PO Box 198
Souderton PA 18964
800-338-0836

Creative Sales Inc
222 N Park Ave
PO Box 501
Fremont NE 68025
402-727-4800
800-288-8845-47

Cumberland Intl Corp
1523 N Post Oak Rd
Houston TX 77055
713-682-1221

Dewitt Co
Hwy 61 S
RR 3 Box 338
Sikeston MO 63801
800-325-0950

Doggett Corp
30 Cherry St
Lebanon NJ 08833
201-236-6335

Dow Chemical USA
9001 Bldg
Midland MI 48640
517-636-1000

Chemical Companies

continued

E I DuPont de Nemours & Co
1007 Market St
Wilmington DE 19898
302-992-6161

★ Elanco Products Co
Lilly Corporate Center
Indianapolis IN 46285
317-276-2679

Estech Branded Fertilizers
See Par Ex

Fermenta Plant Protection Co
5966 Heisley Rd
PO Box 8000
Mentor OH 44061-8000
216-357-4100

Fermone Chemicals Inc
1523 N Post Oak Rd
Houston TX 77055
713-682-1221

★ Finn Corp
9281 Le Saint Dr
Fairfield OH 45014
513-874-2818

Garfield Williamson Inc
Proform Turf Products Div
9 Stewart Pl
Fairfield NJ 07006
201-882-7755
800-435-5296

Garick Corp
13532 Broadway Ave
Cleveland OH 44125
216-581-0100

Grass Growers Inc
424 Cottage Pl
Plainfield NJ 07060
201-755-0923

Great Lakes Biochemical Co
6120 W Douglas Ave
Milwaukee WI 53218
414-464-1200

Great Salt Lake Minerals & Chemicals Corp
PO Box 1190
Ogden UT 84402
801-731-3100

Jonathan Green & Sons Inc
Squankum-Yellowbrook Rd
PO Box 326
Farmingdale NJ 07727
201-938-7007

Green Pro Services
380 S Franklin St
Hempstead NY 11550
516-538-6444

Growth Products
PO Box 1259
White Plains NY 10602
800-NITRO26

Gustafson Inc
1400 Preston Rd
Plano TX 75075
214-985-8877

Hawkeye Chemical Co
PO Box 899
Clinton IA 52732
319-243-5800

Hendrix & Dail Inc
803 Industrial Blvd
PO Box 648
Greenville NC 27835-0648
919-758-4263

Hoechst Celanese Corp
PO Box 5887
Spartanburg SC 29304
800-845-7597

Hoechst-Roussel Agri-Vet Co
Rte 202-206 N
Somerville NJ 08876
201-231-4084

Igene Biotechnology Inc
9110 Red Branch Rd
Columbia MD 21045
800-346-6421

Jacklin Seed Co
W 5300 Jacklin Ave
Post Falls ID 83854
208-773-7581

S C Johnson and Sons Inc
1525 Howe St
Racine WI 53403-2237
414-631-2000

★ JRM Chemical Div
110 W Streetsboro
Hudson OH 44236
216-656-4010

Kalo Inc
4370 W 109 St
Overland Park KS 66211-1311
913-491-9125

Kincaid Enterpises Inc
Plant Rd
PO Box 549
Nitro WV 25143
304-755-3377

★ KLM Bio Systems Inc
10700 Normandale Blvd
Bloomington MN 55437
612-884-4081

LaRoche Industries Inc
1100 Johnson Ferry Rd NE
Atlanta GA 30342
404-851-0380
800-247-7531

★ Lebanon Chemical Corp
1600 E Cumberland St
Lebanon PA 17042
717-273-1687
800-233-0628

Leffingwell Uniroyal Chemical
111 S Berry St
Brea CA 92621
714-529-3973

LESCO Inc
20005 Lake Rd
Rocky River OH 44116
216-333-9250

Maag Agrochemicals Inc
5699 N Kings Hwy
PO Box 6430
Vero Beach FL 32961
305-567-7506

Mallinckrodt Inc
PO Box 5439
St Louis MO 63147
800-325-7155

J J Mauget Co
2810 N Figueroa St
Los Angeles CA 90065
213-227-1482

MCI AgSystems
Div Melamine Chemicals Inc
811 Railroad Ave
Donaldsonville LA 70346
504-473-3121

Milliken Chemical
PO Box 817
Inman SC 29349
800-845-8502

★ Milorganite
Div of M M S D
735 N Water St
Milwaukee WI 53203
414-225-2222

★ Milwaukee Metropolitan Sewerage District
735 N Water St
Milwaukee WI 53202
414-225-2222

★ Mobay Corp
PO Box 4913
Kansas City MO 64120
816-242-2000

Monsanto Agricultural Co
800 N Lindbergh Blvd
St Louis MO 63167
314-694-6640

Moyer & Son Inc
113 E Reliance Rd
Souderton PA 18964
215-723-6001

Moyer Products Inc
3321 W Castor St
Santa Ana CA 92704
714-549-2871

Nacco Tyfo
14439 S Avalor
Gardenia CA 90248
213-515-1700

Na-Churs Plant Food Co
421 Leader St
Marion OH 43302
614-382-5701

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1. Rolling back sod where TerraFlow lines will run. 2. Cutting 2" wide trench. 3. Laying TerraFlow lines in 12" deep trench. 4, 5. Joining TerraFlow lines using only a utility knife and duct tape. 6. Fully installed TerraFlow System. Workers backfill with site soil, puddle with sand. 7. Replacing sod. 8. Completed TerraFlow System. Installation time: about 100 ft. per hour. 9. Green was back in play in 2 hours with TerraFlow. (Photos by Greg Fast, Turf Irrigation Supply, Englewood, Colorado.)

Warren's® Turf Professionals just cut the cost of your next drainage system by 60%.

TerraFlow™

Self-Contained Prefabricated Drainage Systems

. . . a totally new concept in more efficient drainage systems that gives you up to 30 times more drainage per linear foot than perforated drainpipe . . . and goes in 3 times faster, without large crews, backhoes, gravel trucks or costly re-landscaping.

Because 95% of new TerraFlow System's surface area is available for water entry, it absorbs water into its waffle-like core without the need for extensive, costly gravel surrounding it.

Result: a completely self-contained, modern drainage system that can be installed in a fraction of the time and cost of conventional systems . . . and with a minimum of surface disruption or inconvenience.

TerraFlow measures 1½" across and comes in 85 foot long rolls in 6", 12", 18", 24" and 42" depths. TerraFlow Drainage System design aids are now available for applications including: golf greens, tees and fairways . . . athletic fields and general turf areas . . . retaining walls . . . roof gardens and planters . . . roadway edges . . . foundations . . . pavements . . . bridge abutments . . . and many more.

TerraFlow is now available anywhere in the U.S. Call us for the name of the stocking dealer nearest you.
Call 1-800-828-TURF (8873) In California call: 1-800-828-8882.

"It always costs less to put in the best."

Warren's®

TURF PROFESSIONALS

Corporate Offices: Crystal Lake, Illinois 60014

For specific product information contact Warren's Seed & Special Products Division, P.O. Box 459, Suisun City, CA 94585.

7557

Circle No. 173 on Reader Inquiry Card

Chemical Companies

continued

Nalco Chemical Co
One Nalco Center
Naperville IL 60566-1024
312-961-9500

Nature's Touch
11150 W Addison St
Franklin Park IL 60131
312-455-6900

Nepera Inc
Rte 17
Harriman NY 10926
914-782-8171

★ NOR-AM Chemical Co
3509 Silverside Rd
PO Box 7495
Wilmington DE 19803
302-575-2000

North American Green Inc
14649 Hwy 41 N
Evansville IN 47711
812-867-6632

Par Ex
PO Box 512
Winter Haven FL 33882-0512
813-294-2567

Paygro Co
11000 Huntington Rd
South Charleston OH 45368
513-462-8358

PBI-Gordon Corp
1217 W 12 St
Kansas City MO 64101
816-421-4070

Plant Marvel Laboratories Inc
371 E 16 St
Chicago Heights IL 60411
312-757-7500

★ Precision Laboratories Inc
PO Box 127
Northbrook IL 60065
312-498-0800

Prentiss Drug & Chemical Co
CB 2000
Floral Park NY 11001
516-326-1919

PRSM
882 Matlack St Unit E
West Chester PA 19382
215-430-3960

★ Reemay Inc
Industrial Rd
Old Hickory TN 37138
615-847-7000

★ Reinco Inc
520 North Ave
PO Box 512
Plainfield NJ 07060
201-755-0921
800-526-7687

Reuter Laboratories Inc
8450 Natural Way
Manassas Park VA 22111
800-368-2244

R G B Laboratories Inc
1531 Charlotte St
Kansas City MO 64108
816-474-3342

★ Rhone Poulenc-Ag Co
2 T W Alexander Dr
PO Box 12014
Research Triangle Park NC 27709
919-549-2221

Rigo Co
PO Box 189
Buckner KY 40010
502-222-1456

Ringer Corp
9959 Valley View Rd
Eden Prairie MN 55344
612-941-4180

Riverdale Chemical Co
425 W 194 St
Glenwood IL 60425-1584
312-754-3330

Royalgard Products Co
2727 Paces Ferry Rd
Atlanta GA 30339
404-396-8899

Ruffin Inc
Box 940
Dodge City KS 67801
316-225-0071

Safer Inc
60 William St
Wellesley MA 02181
617-237-9600

★ O M Scott & Sons Co
14111 Scottslawn Rd
Marysville OH 43041
513-644-0011 (OH call collect)
800-543-0006

★ Sierra
(HQ) 1001 Yosemite Dr
Milpitas CA 95035
800-346-0201
12101 Woodcrest Exec Dr #190
St Louis MO 63141
800-346-0201

D B Smith & Co
414 Main St
Utica NY 13501
315-735-5223

Soil Seal Corp
1111 W Sixth St
Los Angeles CA 90017
213-481-7185

Southern Mill Creek Products Co
5414 N 56 St
Tampa FL 33610
813-626-2111

Triazone Corp
One Gatehall Dr
PO Box 265
Parsippany NJ 07054
201-829-6500

Trebor Corp
4045-A Jonesboro Rd
Forest Park GA 30050
404-366-0957

UAP Special Products Inc
1035 E Dodge St
Fremont NE 68025
402-727-8689

Valent USA Corp
1333 N California Blvd
Walnut Creek CA 94596
415-256-2700

Vigoro Industries Inc
2121 Third St SW
PO Box 512
Winter Haven FL 33882-0512
813-294-2567

★ Warren's Turf Nursery Inc
Cordelia & Chadbourne Rds
PO Box 459
Suisun City CA 94585
707-422-5100

★ Wilt-Pruf Products Inc
247 Byrum Shore Rd
PO Box 4280
Greenwich CT 06830
203-531-4740

Zoecon Corp-Sandoz Crop Protection Corp
PO Box 10975
Palo Alto CA 94303
415-857-1130

5. Seed Companies

J & L Adikes Inc
182-12 93rd Ave
Jamaica NY 11423
718-739-4400
Kentucky Bluegrasses: Adelphi, Merit, S-21; Perennial Ryegrasses: All Star, Derby, Regal; Fescues: Creeping, Chewing, Houndog Tall; Turfseed Mixes or Blends: made to specifications

Am-Sod Inc
2606 Hollister St
San Diego CA 92154
619-428-6112
Sod/Sprigs: Sod

* Advertiser. See Advertiser's Index

MUSTANG

THE TALL FESCUE THAT LOOKS LIKE BLUEGRASS

KENTUCKY BLUEGRASS

MUSTANG TURF-TYPE TALL FESCUE

BLUEGRASS QUALITIES WITH TALL FESCUE PRACTICALITY

You'll quickly notice Mustang's finer texture, rich dark green color and dense, uniform turf—and you'll understand why we say Mustang has bluegrass-like qualities.

But there's more to Mustang turf-type tall fescue than beauty; it's tough and durable. It's heat and drought tolerance, winter hardiness, and ability to endure low mowing heights are remarkable. Mustang even shows improved resistance to *Helminthosporium* netblotch and many other diseases.

Best of all, Mustang is practical, because it performs extremely well under low maintenance conditions like minimum fertilization, watering and mowing. National tests and actual applications in parks, golf courses and playing fields have proven it.

DROUGHT TOLERANCE AFTER SEVEN WEEKS NO RAINFALL.

KENTUCKY BLUEGRASS | **MUSTANG** | **K-31 TALL FESCUE**

That's why Mustang is becoming the favorite choice of professional turf managers, over K-31 and many other commercially available varieties.

For bluegrass qualities and tall fescue practicality, use the professional's choice—Mustang turf-type tall fescue.

Pickseed also produces

Fiesta PERENNIAL RYEGRASS and Banff Kentucky Bluegrass

and other fine turf grasses available nationwide from quality seed suppliers.

Produced by:

PICKSEED®

PICKSEED WEST Inc.

P.O. Box 888 • Tangent, Oregon 97389

(503) 926-8886

Circle No. 156 on Reader Inquiry Card

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Bamert Seed Co
Rte 3 Box 1120
Muleshoe TX 79347
806-272-5506
800-262-9892
Other: native grasses

E F Burlingham & Sons
PO Box 217
Forest Grove OR 97116
503-357-2141
Fescues: (Tall) Falcon

Cenex/Land O Lakes Ag Services
2882 Howell Prairie Rd NE
Salem OR 97305
503-585-7033
Perennial Ryegrasses: Titlist; Fescues: Bonanza Turf-type (Tall); Turfseed Mixes or Blends: Magnum Brand Perennial Ryegrass; Other: various public and propietary varieties available in straight or mixed forms

Fine Lawn Research Inc
PO Box 290
Madison GA 30650
503-636-2600
Kentucky Bluegrasses: Chateau; Perennial Ryegrasses: Pennant; Fescues: Finelawn & Jaguar Turf Type Tall; Turfseed Mixes or Blends: Triple Play Perennial Rye Blend

Garfield Williamson Inc
Proform Turf Products Div
9 Stewart Pl
Fairfield NJ 07006
201-882-7755
800-435-5296
Kentucky Bluegrasses: Liberty, Eclipse, Midnight, Classic; Perennial Ryegrasses: Omega II, Saturn, Genesis, Pinnacle; Fescues: (Tall) Jaguar, Jaguar II, Emperor, (Hard) Pioneer, (Creeping) Lotus, Ensylva Turfseed Mixes or Blends: Proform Triple Classic Turf Rye Blend (Omega II, Manh. II, Citation II) Proform super Sport Turf (Jaguar, Bonanza TTF; Omega II PR; Liberty KB) Proform Deep Shade Other: Proform Wildflower Mixture, Proform Native & Reclamation Grass Mixtures, Proform sod Bluegrasses Mixtures.

Great Western Seed Co
810 Jackson St
Albany OR 97321
503-928-3100
Kentucky Bluegrasses: Barblue, Baron, Georgetown, Majestic, Mystic, Nassau, Princeton (P104), Ram I, 1757; Perennial Ryegrasses: Cowboy, Diplomat, Palmer, Prelude, Repell, Yorktown II; Fescues: Clemfine Tall, Jamestown Chewings, Rebel Tall, Rebel II Tall, Reptans Creeper, Tribute Tall, Wilma Chewings; Bentgrasses: Astoria, Highland, Penncross, Penneagle, Pennlinks; Turfseed Mixes or Blends: All of the above; Other: Agree Intermediate Ryegrass

Jonathan Green & Sons Inc
Squankum-Yellowbrook Rd
PO Box 326
Farmingdale NJ 07727
201-938-7007
Kentucky Bluegrasses: Jonathan Green's Destiny, Gnome Perennial Ryegrasses: Jonathan Green's Sherwood, Allaire Fescues: Jonathan Green's Mesa, Richmond Turfseed Mixes or Blends: Touch-up Ryegrass Blend, Showlawn, Blue-Rye, Sodmaker, Full Sun, Dense Shade, Sun & Shade, Drought Tough, Fun Lawn, Heavy Traffic, Fast Grow, Contractors Mix, Pasture Mix, Veri-Green, Wildflower Other: Birdsfoot Trefoil, Blackwells Switchgrass, Clovers, Penngift Crown Vetch, Deertongue, Orchardgrass, Poa Trivialis, Redtop, Reed Canarygrass, Sericea Lespedeza, Timothy, Weeping Lovegrass, Winter Rye, Wildflowers

★ International Seeds Inc
820 First St
PO Box 168
Halsey OR 97348
503-369-2251
TWX: 910-240-5575
Kentucky Bluegrasses: Ikone Fescues: Houndog & Pace Tall; Fine fescues: Enjoy & Longfellow Chewings, Ensylva & Cindy Creeping Bentgrasses: Emerald, Cobra Rough Bluegrass: Sabre Turfseed Mixes or Blends: PhD & PhD & Sabre, Dixie Green, Dixie Green with Sabre,

★ Jacklin Seed Co
W 5300 Jacklin Ave
Post Falls ID 83854
208-773-7581
Kentucky Bluegrasses: Glade, Fylking, Wabash, Eclipse, Nassau, Nugget, Ram I, Huntsville, Merion, Amazon, Adelphi; Perennial Ryegrasses: All*Star; Fescues: Arid Turf-Type Tall, Safe Endophyte Free Tall, Wrangler Turf-Type Tall Bentgrasses: Putter Creeping; Turfseed Mixes or Blends: Four Star Sod Blend; Other: Streaker Redtop, Reubens Canada Bluegrass

LESCO Inc
20005 Lake Rd
Rocky River OH 44116
216-333-9250
800-321-5325
800-686-7413(OH)
Kentucky Bluegrasses: Adelphi, A-34, Baron, Challenger, Cheri, Columbia, Dawn, Eclipse, Fylking, Glade, Gnome, Julia, Common Kentucky, Merion, Merit, Midnight, Park, Plush, Ram I, Sydsport, Touchdown, Vantage; Perennial Ryegrasses: Birdie II, Citation II, Derby, Linn, Manhattan, Manhattan II, Omega II, Pennant, Pennfine, Regal, Regency, Vintage 2DF; Fescues: Chewing-Jamestown, Shadow; Creeping-Ensylva, Flyer, Fortress, Pennlawn; Hard-Aurora, Waldina; Sheep-Bighorn; Dwarf-Trailblazer; Tall-Apache, Bonanza, Cimarron, Falcon, Kentucky 31, Olympic; Bentgrasses: Colonial-Astoria, Highland; Creeping-Emerald, Penncross, Penneagle, Pennway Blend, Seaside; Turf Seed Mixes or Blends: LESCO: Classic Turf (KY Bluegrasses, Perennial Ryegrass & Chewings), Quality Blue (KY Bluegrasses), Double Eagle-CBS II (Perennial Ryegrasses), Eagle (Turf-Type Perennial Ryegrasses), Premium (KY Bluegrasses, Perennial Ryegrasses), Park & Athletic Mix (Kentucky Bluegrass, Creeping Red Fescue, Turf-Type Perennial Ryegras), Shade Mix (Chewing & Creeping Fescues, Perennial Ryegrass, Hard Fescue, KY Bluegrass), Transition (Turf-Type Tall Fescues), Tuf-Turf (Turf-Type Tall Fescues & KY Bluegrass), Citation II + Pennfine (Perennial Ryegrasses), CBS II + Shadow (Double Eagle & Fescue), CBS II & Sabre (Double Eagle & Sabre Poa trivalis), Par Blend (Turf-Type Perennial Ryegrasses), 3CN Intermediate Ryegrass (Annual & Perennial Ryegrasses)

★ Lofts Seed Inc
Chimney Rock Rd
PO Box 146
Bound Brook NJ 08805
201-560-1590
Kentucky Bluegrasses: Baron, Nassau, Ram I, Georgetown, Mystic; Perennial Ryegrasses: Palmer, Prelude, Cowboy, Yorktown II, Repell, Diplomat; Fescues: Jamestown Chewings, Rebel, Reliant Hard, Rebell II, Tribute Tall; Turfseed Mixes or Blends: Marvelgreen overseeding blends; Other: Laser Poa trivialis

★ Northrup King
Medalist Turf Products Div
PO Box 959
Minneapolis MN 55440
612-593-7333
Kentucky Bluegrasses: Adelphi, Aspen, Aquila, Parade, Rugby, Trenton; Perennial Ryegrasses: Caddie, Delray, Goalie, NK200, Pennfine; Fescues: Arid tall, Dawson red, Ruby creeping red, Scaldis hard, Galway tall; Bentgrasses: Highland, Penncross, Penneagle, Seaside; Turfseed Mixes or Blends: Athletic Pro, Athletic Pro II, Overseeder II, Overseeder III, Renovator Pro, Special Park, Premier Turf, Swift & Sure, Premium Sod, Shady Turf, Medalist North, Landscape Pro, Boulevard Mix, Super Pro III, General Turf, General Turf III, Landscape Pro West, Alkali Turf Mix, Triple Pro, Medalist 7, Medalist 6, Medalist 5, Medalist 7+Sabre, Accent, Medalist 300, Medalist 400, Medalist 400+Sabre, Medalist 60/40; Other: Fults Puccinellia distans

Oregon Fine Fescue Commission
866 Lancaster Dr SE
Salem OR 97301
503-585-1157
Fescue: creeping and chewings

Oregon Ryegrass Growers Seed Commission
4093 12th St SE
Salem OR 97302
503-364-3346

* Advertiser. See Advertiser's Index

If it's not Certified Manhattan II, it's not 'such a deal' after all.

Some dealers are offering you a deal to take something they call Manhattan off their hands

THE REAL BAG

Manhattan Ryegrass Growers Association has the exclusive contract to produce Manhattan and Manhattan II perennial Ryegrasses. These select seed growers have not produced the old Manhattan strain for years, so much of what is being produced as Manhattan is probably not true Manhattan.

The improved *certified* Manhattan II, co-developed by Dr. Bill Meyer at Pure Seed Testing and Dr. C. Reed Funk has significant improvements over the old Manhattan ... like rust and disease resistance, darker green color and better plant density.

So what is their stuff? We *know* it bypasses seed certification and royalty programs. And, because it's not certified, we have no way of knowing just what's in the bag.

And neither do you.

Qualified turf associations can earn cash for turf research by saving Manhattan II blue tags. Contact your dealer for details.

PVP 8200154. Unauthorized propagation prohibited.

Manhattan II

TURF-TYPE PERENNIAL RYEGRASS ONLY FROM

Turf Merchants, Inc.

33390 Tangent Loop Road
Tangent, OR 97389
800-421-1735 FAX 503-926-4435
(503) 926-8649 TWX 910-997-0773

Turf-Seed, Inc.

P.O. Box 250 • Hubbard, OR 97032
800-247-6910 FAX 503-981-5626
503/ 981-9571 TWX 510-590-0957

Circle No. 171 on Reader Inquiry Card

continued

Perennial Ryegrasses: all Oregon Ryegrasses; Other: Annual Ryegrasses

★Oregon Tall Fescue Commission
866 Lancaster Dr SE
Salem OR 97301
503-585-1157

OSECO Inc
210 Wanless Dr
Brampton ON Canada
L6V 2L2
416-846-5080
Kentucky Bluegrasses: Baron, Gnome, Haga, Majestic, Midnight, Nassau, Sydsport Reubens Canada; Perennial Ryegrasses: Barry, Yorktown II, Palmer, Gator; Fescues: Biljart hard, Fortress creeping red, Highlight, Koket & Wilma chewings, Rebel & Rebel II tall; Bentgrasses: Emerald, Penncross, Penneagle; Turfseed Mixes or Blends: Custom mixed from aforementioned species

Pennfine Perennial Ryegrass
PO Box 959
Minneapolis MN 55440
612-593-7333
Perennial Ryegrasses: Pennfine

Peterson Seed Co
PO Box 346
Savage MN 55378
612-445-2606
Kentucky Bluegrasses: Monopoly, Classic & Eclipse

Otto Pick & Sons Seeds Ltd
11151 Yonge St
Box 126
Richmond Hill ON Canada
L4C 4X9
416-884-1147
Kentucky Bluegrasses: America, Banff, Nugget, Touchdown; Perennial Ryegrasses: Blazer, Fiesta; Fescues: Agram, Mustang, Tournament hard; Bentgrasses: Exeter

★Pickseed West Inc
PO Box 888
Tangent OR 97389
503-926-8886
Kentucky Bluegrasses: America, Touchdown, Banff, Bronco; Perennial Ryegrasses: Fiesta, Fiesta II, Blazer, Blazer II, Dasher, Dasher II, Jazz; Fescues: Tall-Mustang, Maverick, Thoroughbred; Chewings-Agram, Victory; Hard-Spartan, Tournament; Sheep-Azay; Bentgrasses: Exeter colonial, Kingstown velvet, National creeping, Penncross, Penneagle, Pennlinks creeping; Turfseed Mixes or Blends: Futura 2000, Fiesta II, Dasher II, Blazer II), Futura Plus (Fiesta, Dasher, Blazer), Team (Mustang, Maverick, Thoroughbred); Other: Colt poa trivialis, Flowers 'n' Flowers wild flower mix, Flowers 'n' Grass mix

★O M Scott & Sons Co
14111 Scottslawn Rd
Marysville OH 43041
513-644-0011 (OH call collect)
800-543-0006
Kentucky Bluegrasses: Victa, Bristol, Abbey, Coventry; Perennial Ryegrasses: Loretta Ovation, Caravelle; Fescues: Banner Bentgrasses: Penncross, Penneagle, Pennlinks, Pennway; Turfseed Mixes or Blends: Sportsturf (Loretta/Pennant Perennial Ryegrass, Abbey/Victa Bluegrass); Other Turf Seed: Winter Turf overseeding line (4 different Perennial Ryegrass blends)

Seaboard Seed Co
PO Box 117
Bristol IL 60512
312-553-5800
Kentucky Bluegrasses: Midnight, Classic, Eclipse, Glad, Haga, Adelphi, Baron, Merit, Gnome, Monopoly, Parade, Touchdown, Nassau, Banff, Newport, Julia, Chateau, America, A-34, Park, Rami, Nugget; Perennial Ryegrasses: Palmer, Prelude, Manhattan II, Pennant, Derby, Fiesta II, Pennfine, Manhattan II, Citation, Jazz, Rodeo, Patriot, Omega II; Fescues: Fine-spartan, Saldis, Victory, Jamestown, Koket, Pennlawn, Tall-arid, Olympic, Apache, Adventure, Mustang, Falcon, Brookston, K 31; Bentgrasses: Penncross, Penneagle, Seaside, Highland, Exeter, Red top; Turfseed Mixes or Blends: Custom mixes; Other: Crown Vetch, Birdsfoot Trefoil, Native Grasses, Wildflowers, Poa Trivialis, Canada bluegrass, Fults, Reed Canary

Seed Research of Oregon Inc
644 SW 13 St
Corvallis OR 97333
503-757-2663
800-253-5766
Kentucky Bluegrasses: Enmundi, Merit, Harmony; Perennial Ryegrasses: SR4000, SR4100; Fescues: Tall-Trident & SR8000, Hard-SR3000, Chewings-SR5000; Bentgrasses: SR1020, SR1019 Creeping; Turfseed Mixes or Blends: Champion (Perennial Ryegrass Blend), Trophy & Survivor (Tall Fescue Blends), Crusade (Fine Fescue Blend), Dominant (Bentgrass Blend)

Southern Turf Nurseries
5172 A Indian Trail Ind Pkwy
Norcross GA 30071
404-448-9932
Sod/Sprigs (South Only): Tifway 419, Tifgreen 328, Tifwarf, Centipede, Midiron

Sunbelt Seeds Inc
5172 Indian Trail Ind Pkwy Ste A
Norcross GA 30071
404-448-9932
Kentucky Bluegrasses: Baron, Nassau, Georgetown, Ram I; Perennial Ryegrasses: Palmer, Prelude, Cowboy; Fescues: Jamestown Chewings; Turfseed Mixes or Blends: Marvel Green, Supreme (Over Seeding Blend)

★Tee-2-Green Corp
3017 W G St
Hubbard OR 97032
503-981-9574
Bentgrasses: Penncross, Penneagle, Pennlinks, Pennway

★Turf Merchants Inc (TMI)
PO Box 1467
Albany OR 97321
503-491-3622
800-421-1735
Kentucky Bluegrasses: Gnome, Tendos, True Blue, Lexington, Rugby; Perennial Ryegrasses: Pennfine, Manhattan II, Rodeo, Patriot; Fescues: Tall-Wrangler, Turfgem, Brookston; Bentgrasses: VIP Cr. Blend; Turfseed Mixes or Blends: VIP Overseeding Blend (Pennfine, Manhattan II, Patriot)

Turf Merchants International
33390 Tangent Loop
Tangent OR 97389
503-926-8649
Kentucky Bluegrasses: Gnome, Tendos, Topfit, Topstar, Trublue, Lexington, Twilight; Perennial Ryegrasses: Aquarius, Patriot, Pennfine, Manhattan II, Rodeo, Allaire, Barry; Fescues: (Tall) Wrangler, Brookston, Laredo, Bonsai, Turfmates, Turfgem II & Estacda chewings, Virtus creeping; Bentgrasses: VIP creeping, Penncross, Penneagle, Pennlinks

★Turf Seed Inc
PO Box 250
Hubbard OR 97032
503-981-9571
Kentucky Bluegrasses: Midnight, Columbia, Challenger, Voyager Perennial Ryegrasses: Manhattan II, Citation II, Birdie II, 246 Fescues: Apache, Olympic, El Dorado, Triathalawn, Silverado Tall, Shadow Chewings, Aurora Hard, Fortress creeping, Shademaster creeping Bentgrasses: Pencross, Penneagle, Pennlinks, Pennway

Van Der Have Oregon Inc
33725 Columbus St SE
PO Box 1496
Albany OR 97321
503-967-8923
Kentucky Bluegrasses: Sophia, Minstral, Cynthia; Perennial Ryegrasses: Ranger, Brenda, Nova, Mondial, Sheriff, Pennfine, Patriot, Rodeo Fescues: (Chewings)Waldorf, Atlanta, Scarlet, Epsom Hard) Biljart, Scaldis, Silvana (Creeper) Dawson, Ruby (Creeping) Carmen (Colonial) Tracenta; Turfseed Mixes or Blends: Quartet-4 way blend of fine leaf perenial ryegrass Mondial, Brenda, Patriot, Pennfine

Vaughan Seed Co
5300 Katrine Ave
Downers Grove IL 60515
312-969-6300
Kentucky Bluegrasses: Adelphi; Perennial Ryegrasses: All Star, Citation

Vaughan Seed Co
Chimney Rock Rd
Bound Brook NJ 08805
201-356-4200

* Advertiser. See Advertiser's Index

BEFORE WE DEVELOPED THESE PROBLEM-SOLVING TURFGRASS MIXTURES, WE MARCHED THROUGH ACRES AND ACRES OF PROBLEMS.

Nobody knows the troubles we've seen.

Our Northrup King turf specialists and researchers have hoofed through salt problems, soil compaction, disease, starved turf, baked turf, cleated-to-shreds turf, and dormant winter turf—all depressing sights. But it was a road well worth our travels.

The result is a complete line of Medalist® turfgrass formulas that meet the demands of the professional turf manager.

If you've been staring down at a turf problem, look up your solution here. And if you think it's a turf problem we haven't seen, just let us know.

Our business is putting your problems behind us.

MEDALIST TURF PRODUCTS ™

MEDALIST TURF PRODUCT	MAJOR AREAS OF USE	SPECIAL FEATURES
Athletic Pro and Athletic Pro II	For athletic turf.	Well suited for new seeding or overseeding. Fast establishing, traffic tolerant, rapid recovery. Both provide good footing.
Boulevard Mix	Any area with high pH (roadsides, sidewalks, boulevards, alkaline soils, etc.).	Contains 'Fults' and Dawson red fescue for beautiful salt-tolerant turf. Performs at low to high fertility levels.
Landscape Pro Mix	School grounds, cemeteries, golf course roughs, home lawns.	Establishes fast. Adapts to broad range of conditions and management levels. Low to moderate fertility needs.
Overseeder II Mix	Fairways, tees, athletic fields.	Rapid germination and establishment. Withstands heavy traffic and resists diseases. Penetrates compacted soils.
Medalist North Mix	Fairways, tees, cart paths, wear areas.	Quality turf for high traffic areas. Clean mowing and disease resistant.
Premium Sod Blend	Commercial sod production.	Exceptional dark green color. Tolerates light shade. Superior disease resistance. Rapid sod producer.
Renovator Pro Mix	Problem solver for heavy traffic areas (athletic fields, golf tees, and fairways).	Penetrates compacted soils and combats *Poa annua.* Adaptable to most geographic regions.
Medalist Brand Overseeding Products	Winter overseeding of dormant bermudagrass.	Establishes rapidly and evenly. Tolerates traffic while providing a superior putting surface. Smooth spring transition.

Ask your Northrup King distributor about Medalist Turf Products to solve your turf problems. Or write Northrup King Medalist Turf Products, P.O. Box 959, Minneapolis, MN 55440.

Circle No. 153 on Reader Inquiry Card

Safe, Top Quality, Easily Maintained Play Areas Start With . . .

besttop®

Recreational Products

- Baseball Diamond Toppings
- Special Court Toppings
- Special Track Toppings
- Golf Course Sands
- Swimming Pool Filter & Playbox Sands

Clean, Safe, Uniform Sands, Clays and Specialty Mixes for Every Recreational Use.

For additional information call or write:

MORIE

THE MORIE COMPANY, INC.
1201 N. High Street
Millville, NJ 08332
1-800/257-7034
In NJ 609/327-4500
Junction City, GA 31812
404/269-3294
Tuscaloosa, AL 35401
205/758-8353
Camden, TN 38320
901/584-8201

Circle No. 149 on Reader Inquiry Card

Seed Companies

continued

Kentucky Bluegrasses: Adelphi, Glade, Cheri, Merit, Touchdown; Perennial Ryegrasses: All Star, Pennant, Citation, Regal

★ Warren's Turf Nursery Inc
Cordelia & Chadbourne Rds
PO Box 459
Suisun City CA 94585
707-422-5100
Kentucky Bluegrasses: Warren's A-34 BenSun; Fescues: Adventure Turf Type Tall

6. Miscellaneous Services

Agri-Diagnostics Assocs
2611 Branch Pike
Cinnaminson NJ 08077
609-829-0110
Diagnostic services

Akzo Industrial Systems Co
One North Pack Sq
Asheville NC 28802
704-258-5050
Subsurface drainage matting, natural turf and soil reinforcement matting

★ Bush and Cook Leasing Inc
1600 W Main St
Wilmington OH 45177
513-382-5502(OH)
800-342-4784
Equipment leasing/financing

Environmental Industries Inc
24121 Ventura Blvd
Calabasas CA 91302
818-992-5900
Landscape services

★ Morie Co
1201 N High St
Millville NJ 08332
800-257-7034
609-327-4500
Sands, clays and specialty mixes

Opti-Gro Div Mantek
PO Box 2170
Irving TX 75061
800-241-3302
404-952-0228(GA)
Grounds care technology

ServiceMaster LawnCare
2300 Warrenville Rd
Downers Grove IL 60515
312-964-1300
Lawn care franchises

Telmark Inc
Box 4943
Syracuse NY 13221
Agri-lease

Velotta Uniform Sales Inc
12429 Cedar Rd
Cleveland OH 44106
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800-544-2737, Hear Tone, Dial 38
Work uniforms, caps, jackets, monogramming, computerized logo embroidery

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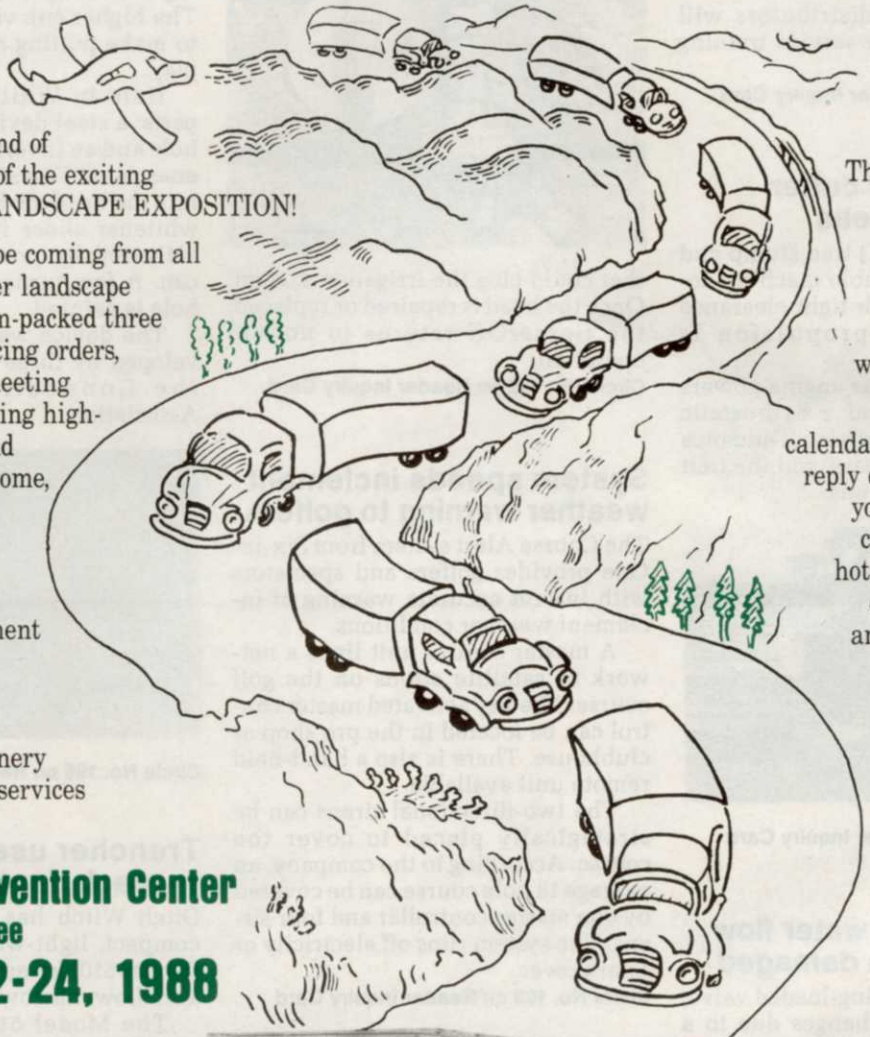
Wilmington, OH 45177
Toll Free 800-342-4784 In Ohio 513-382-5502

Circle No. 108 on Reader Inquiry Card

TRUCK ON DOWN



To Nashville, heartland of the country and site of the exciting THIRD ANNUAL LANDSCAPE EXPOSITION!

Your colleagues will be coming from all directions to join other landscape professionals for a jam-packed three days of shopping, placing orders, testing equipment, meeting new suppliers, attending high-powered seminars, and sharing some down-home, foot-stompin' fun.

Among the exhibits will be:

- Power equipment
- Seeds
- Chemicals
- Accessories
- Heavy machinery
- Systems and services

There's more. Three days of seminars, presented by key players in the industry, will cover the vital technical and business issues which keep you on top.

Mark your calendar now, and return the reply card today. We'll send you complete exhibitor, conference, travel, and hotel information. Truck on down to Nashville, and take the break you deserve – you're entitled to it.

The Third Annual Landscape Exposition

Nashville Convention Center
Nashville, Tennessee
October 22-24, 1988

Sponsored by Landscape Management and Lawn Care Industry Magazines

EDGELL EXPOSITIONS

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Circle No. 139 on Reader Inquiry Card

PRODUCTS

New engine installed in mid-size mowers

Bunton's mid-sized commercial mowers will feature a new engine manufactured by Onan, Bunton announced at the Lawn & Garden Expo 88.

The 12.5 hp engine has an overhead valve design and includes electronic ignition, pressurized lubrication and cast iron cylinders, among other things. The engine is available on Bunton's 32-, 48-, 52- and 61-inch mowers.

Bunton and its distributors will carry parts and offer service training for stocking dealers.

Circle No. 190 on Reader Inquiry Card

Portable stump cutter fits into tight areas

Rayco's RG 1620 (JR) tree stump and root cutter is a portable machine designed for areas with tight clearance and where self-propulsion is advantageous.

A 20 hp Kohler gas engine powers the cutting unit, and a hydrostatic motor provides propulsion. Guidance requires no handle bars, and the unit weighs only 630 pounds.

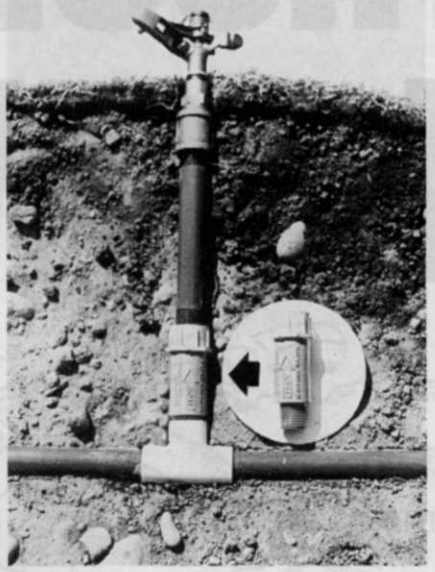
Circle No. 191 on Reader Inquiry Card

Valve shuts off water flow if spray head is damaged

The GeyserOff, a spring-loaded valve, senses water flow changes due to a broken sprinkler head or riser and shuts off flow to the head within seconds.

The valve attaches to each riser or sprinkler head below ground where the main supply lines are. The valve will shut off flow to the damaged head but allows flow to the rest of the system.

On automatic systems, when water comes back on, the GeyserOff, manufactured by Oases Industry, briefly releases water and shuts off again, a reminder that it still needs repairing. This will also flush out sand and dirt



that could clog the irrigation system. Once the head is repaired or replaced, the GeyserOff returns to normal operation.

Circle No. 192 on Reader Inquiry Card

System speeds inclement weather warning to golfers

The Course Alert system from Six-in-One provides golfers and spectators with instant accurate warning of inclement weather conditions.

A master control unit links a network of satellite sirens on the golf course. The key activated master control can be located in the pro shop or clubhouse. There is also a hand-held remote unit available.

The two-directional sirens can be strategically placed to cover the course. According to the company, an average 18 hole course can be covered by one master controller and four sirens. The system runs off electricity or solar power.

Circle No. 193 on Reader Inquiry Card

Moisture sensor saves 50 percent of water

The Moisture Stat can yield irrigation systems more than 50 percent in water savings, according to its manufacturer, Griswold Controls.

Moisture Stat is an electronic moisture sensing system that consists of a control panel and four sets of maintenance-free probes. Up to six stations can be assigned to each of the probe sets. When the controller begins, the Moisture Stat measures the moisture across each set of probes and compares it to the desired pre-set moisture. If the signal indicates that moisture is above the setting, watering does not occur.

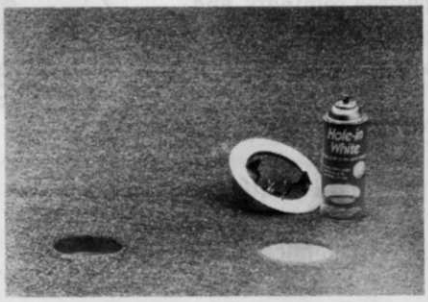
Circle No. 194 on Reader Inquiry Card

Device assists coloring of putting green holes

The Hole-in-White putting hole painter aids superintendents in painting the inside of putting green holes. The higher cup visibility is supposed to make putting easier and speed up play.

Hole-in-White consists of two parts: a steel device that fits over the hole and an inverted can of turf-whitener paint. The steel piece fits snugly into the lip of the freshly cut hole. The whitener slides into position and is activated by pressing down on the can. A few turns of the can and the hole is painted.

The device was invented and developed by three active members of the Connecticut State Golf Association.



Circle No. 195 on Reader Inquiry Card

Trencher uses eight teeth to reach depth of 10 inches

Ditch Witch has introduced a new compact, light-weight disk trencher (Model 510) for applications requiring a shallow, narrow trench.

The Model 510 is a 4.6 hp machine that has a simplified design with few moving parts. Eight digging teeth bolt on and off the 22-inch steel wheel disk for quick, easy changes. It can dig to depths of 10 inches at 2-inch widths.

The machine's narrow width of 31 ¼ inches is helpful in getting it into hard-to-access work areas. It can dig trenches for installation of service cable or sprinkler pipe, landscaping edging and other applications requiring a shallow, narrow trench.

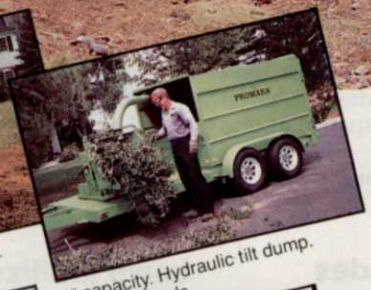
The 200-pound trencher features an integral slip clutch to protect the

Model PAL
Aerial Lift/Trailer (top)

Model 400
Log & Brush Chipper (center)

Model R-18
Stump & Root Grinder (bottom)

Full vision cutting. 22" wide.
Hydrostatic drive.



6" capacity. Hydraulic tilt dump.
8½ cubic yards.

6" capacity. 360° discharge.
Self feeding.

Self-propelled. Positive clutch.
Cuts 20" deep.

Working heights to 40 ft.
Removable in 5 minutes.

12" capacity. 360° feed rotation.

PROMARK.

Everything for tree-related grounds maintenance.

For aerial lifts that reach up to 40 feet for tree and utility service work, to rugged stump grinders that eliminate roots down to 20" below ground, Promark provides landscapers, arborists and grounds maintenance professionals with a *complete* family of equipment.

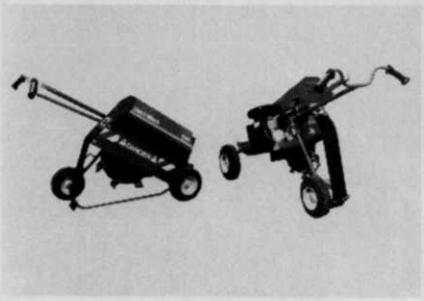
Making up the strong center of the line are Promark's brush chippers and log splitters, in a range of sturdy models that make finishing a job easy and profitable.

Call
(818) 961-9783
FAX (818) 961-2307

PROMARK PRODUCTS INC.
330 9th Avenue, City of Industry, CA 91746

Circle No. 159 on Reader Inquiry Card

engine against shocks. An operator-presence control system requires that one hand remain in contact with a handlebar control during operation or the machine automatically shuts off.



Circle No. 196 on Reader Inquiry Card

Tool monitors compaction

The Penetrometer from Turf-Tec measures soil compaction in all turf areas and construction sites. The easy-to-use, quick release device is made of all-weather chrome.

It operates with the help of gravity and is calibrated from zero to 100 per-

cent compaction. The Penetrometer works on golf courses, athletic fields, playgrounds, new construction areas and other turf areas.

Circle No. 197 on Reader Inquiry Card

High speed mower cuts 3.5 acres an hour

The 724-Z commercial mower from Wheel Horse Products mows at 6.5 mph and covers 3.5 acres per hour, according to the company.

The speed is possible because of soft, low pressure tires. The tires act as a suspension system and also as gauge wheels for its 60-inch deck, which follows the contour of the turf.

Blades sharpened from tip to hub ensure a no-streak cut at that speed. The unit is equipped with a 24 hp twin cylinder Onan engine.

Circle No. 198 on Reader Inquiry Card

Vibrating blades help reduce soil compaction

The Vibra Master from Green Care International is a disc and blade aeration system. Five free rolling discs slice the turf for a clean cut. Five vertical, vibrating blades follow the discs, creating aeration drainage channels while loosening soil to depths of eight inches.

PTO driven eccentric cams provide the vibration action by oscillating the blades backward and forward in a small arc.

The sizes of the three blades range from five to nine inches long. The unit, which is pulled by a tractor, uses either two or three blades spaced at two feet or five blades spaced at one foot.

Circle No. 199 on Reader Inquiry Card

Sign system provides plant information

The Sig-Num Signage System from Metalphoto features a 3½- by 5-inch anodized aluminum sign that holds a maximum of eight lines with 25 characters each.

The durable outdoor signs have a

life expectancy of 20 years each. A complete installation system is also available.

In conjunction with introducing the new product line, Metalphoto is offering a free sample. Send the company a design of your sign which meets the above specifications.

Circle No. 200 on Reader Inquiry Card

Hose bag kit attaches quickly to blowers

A new hose bag kit attaches quickly to Roto-Hoe's line of walk-behind blowers. The eight-foot long hose has a five-inch diameter and is made of heavy-duty clear plastic.

It is reinforced with PVC strips rather than steel wire for minimum wear. The five-foot long bag attaches without the use of tools.

Circle No. 201 on Reader Inquiry Card

Lawn fertilizer injector calibrates chemicals

A redesigned version of the Chemilizer lawn fertilizing device manufactured by Chemilizer Products, can connect to underground systems, aboveground sprinklers or any type of irrigation system.

The Chemilizer is a small round container with standard hose fittings. It can be moved to different locations. Installation requires no special tools.

Liquid fertilizer is poured into the Chemilizer and is distributed as needed through a calibrated injector. The Chemilizer is available in two- and four-gallon sizes. The system needs replenishing with liquid only occasionally since the average lawn needs about one gallon of liquid fertilizer per 3,000 sq.ft. each month, according to the company.

In underground systems, chemicals are injected downstream of the water pump to avoid corrosion. The Chemilizer can be bypassed as needed.

Circle No. 202 on Reader Inquiry Card

Sabre *Poa trivialis* isn't just a good shade grass. It's the best.

Years ago fine fescue was considered the best performer in damp shade.

That changed with the appearance of *Poa annua*-free Sabre *Poa trivialis* and a 1979 shade tolerance trial at Ohio State University.

In that test Sabre was top-rated for shade tolerance when compared to 39 mixtures, blends and monostands of fine fescue, ryegrass, Kentucky bluegrass and tall fescue.

An excerpt from trial data said: "Sabre, which had the highest overall seasonal ratings, maintained the most consistent quality throughout the season."

Due to its special qualities Sabre should be sown only in damp shade. For this purpose it may be mixed with fine fescue, turf-type ryegrass or Kentucky bluegrass.

Normal cutting height is 1-1/2 inches, but on winter putting greens in the Southern U.S., it has proven its ability to thrive when cut at 3/16th.

One of the first domestic varieties to be registered with the U.S. Plant Variety Protection Office, Sabre is both disease-resistant and hardy.

ISI INTERNATIONAL SEEDS, INC.

P.O. Box 168 – 820 First Street • Halsey, Oregon 97348 • Telephone: 503-369-2251 • TELEX 910-240-5575

Circle No. 129 on Reader Inquiry Card

CLASSIFIEDS

RATES: $1.10 per word (minimum charge, $25). Bold face words or words in all capital letters charged at $1.35 per word. Boxed or display ads: $90 per column inch-1x (one inch minimum); $85-3x; $80-6x; $75-9x; $70-12x. Agency commissions will be given only when camera-ready art is provided by agency. For ads using blind box number, add $10 to total cost of ad. Send ad copy with payment to Dawn Nilsen, LANDSCAPE MANAGEMENT, 1 East First Street, Duluth, MN 55802 or call 218-723-9200.

BOX NUMBER REPLIES: Mail box number replies to: LANDSCAPE MANAGEMENT, Classified Ad Department, 1 East First St., Duluth, MN 55802. Please include box number in address.

HELP WANTED

GROW WITH TURF: Career opportunities are available for professionals with experience in lawn care, landscaping and irrigation. We're looking for aggressive self-starters to join our organization. Thrive on the challenge of our growth. Enjoy above average earnings and excellent benefits. Send resume and salary requirements to Turf, P.O. Box 433, Moorestown, NJ 08057 or call (609) 778-0780. 11/88

MANAGEMENT

Due to our aggressive expansion program in the midwest, east coast and southwestern regions, we are needing management personnel for all phases of our tree & shrub and lawn care services, in both residential and commercial operations. If you are "Results-Oriented" with a strong desire to achieve and high personal goals, send resume including salary history to:

Corporate Recruiter
Ever-Green Lawns Corp.
1390 Charlestown Ind. Dr.
St. Charles, MO 63303

IRRIGATION SUPERVISOR. ("INC 500 company") Experienced, aggressive, sales supervisor to manage lawn sprinkler system department including sales, installation and service. Challenging growth opportunity with good salary, benefits, and company vehicle. Send resume: Attn: Monty Mitchell, Suburban Landscape Associates, P.O. Box 2342, Davenport, IA 52809. 9/88

Tree care person — experienced in Horticulture or Aboriculture. Will train tree climbing and/or spray applicator. Salary & benefits commensurate with ability and experience. Send resume to: Tree Care, Inc., 216 East Main St., Huntington, NY 11743. 9/88

Arborist - Tree climber and spray applicators, experienced or will train forestry or horticultural student. Tremendous growth potential. Tree Care, Inc., 216 East Main Street, Huntington, New York, Area Code: 516-#424-9440 or #424-9441. 9/88

Landscape Architects/Supervisors (project foremen) to join a nationally acclaimed firm looking to expand into its second generation Long Island area supports a high budget landscape industry. Year round employment, company benefits and continuing education available. Experienced and aggressive people send resume to: **GOLDBERG & RODLER, INC.**, 216 East Main Street, Huntington, New York, 11743. 9/88

NURSERY MANAGER - Take charge person, strong knowledge of plant material and plant production. Tremendous growth potential. Eastern Long Island. Send resume to: Box 226, Centerport, New York 11721. 10/88

WANTED - Aggressive Manufacturer's Reps - Manufacturer of agricultural, golf course, municipal and lawn & garden spraying equipment is seeking qualified reps with experience in sprayer sales. Seeking nationwide network, exclusive territory contract, excellent technical support and top of the line equipment. Send resume and current line card to: The Broyhill Company, P.O. Box 475-CB, Dakota City, NE 68731-0475. Phone: 1-800-228-1003. 9/88

SALES REPRESENTATIVES - Landscape maintenance firm that has been established for 30 years in southeast Florida has several openings for over achievers. We are looking for people who can challenge our top sales person who sold over $1,000,000 in 1987. Applicants should have a background in horticulture, turfgrass management or pest control. 30-50k first year's earnings. Applications for training supervisors, service routes and pest control technicians are also being taken. Call or write Mr. DeMaria at 310 Northwest 16th Terrace, Pompano Beach, FL 33064, 305-971-0110. 10/88

LANDSCAPE EMPLOYMENT OPPORTUNITIES - One of the Midwest's largest commercial landscape contracting and maintenance firms seeks motivated, quality individuals to fill the following positions: Landscape Construction Superintendent, Estimator/Contract Administrator, Landscape Materials Buyer, Foremen, Pesticide Applicators. Excellent salary and benefit package. Send resume to: Reinhold Landscape, Inc., 23216 Telegraph, Flat Rock, MI 48134. 9/88

SENIOR LANDSCAPE ARCHITECT

The University of California, San Diego *is currently in the midst of an aggressive $500 million building program and is seeking an experienced Landscape Architect.*

The position reports to the Assistant Vice Chancellor of Physical Plant Services and is responsible for administering the Grounds/Landscape Division. Will represent the department to the community and interact with architects, engineers and contractors. Will act as consultant in the design and plan review of all new and existing campus landscape development and be the advisor and technical specialist for new construction acceptance. Manage all aspects of Grounds Maintenance.

Requires landscape architectural license and the ability to attain State of California registration as Landscape Architect within a year. Must have progressive demonstrated experience and skills and knowledge in all aspects of landscape architecture and ornamental and technical horticulture with the skill to manage and administer a major program including budget planning, staffing and operations. Excellent supervisory, administrative, interpersonal and communication skills. Prefer related experience within a College/University Physical Plant.

Hiring salary: $37,300-$46,600 annually *plus excellent benefit package. For full consideration, submit resume and cover letter, referencing* ***Job # 19984-M*** *by* ***September 30, 1988,*** *to: UCSD, Personnel, 501 Matthews Complex, Q-016, La Jolla, CA 92093. AA/EOE.*

UCSD
University of California,
San Diego

PROFESSIONALS

Due to our aggressive expansion program in the Southwest & West Coast regions we are hiring experienced landscape maintenance & construction personnel. We are looking for career minded individuals to fill openings for:

Administrators
Supervisors
Salespersons
Foremen
Irrigators

Positions Available in:

Los Angeles
Santa Ana
Palm Springs
Dallas/Ft. Worth

We offer excellent salary & benefits. Send resume to **LM Box 459.**

CAREER OPPORTUNITY - Established growth oriented midwest firm seeks organized dynamic individual to manage landscape contracting division. Must have related degree and solid experience to qualify. Current division responsibilities include sales in excess of $3,000,000 in staff of 80. Excellent salary, commission plan and full benefit package. Send resume in confidentiality to LM Box 455. 9/88

LANDSCAPE PROFESSIONALS!

If you qualify as one of the best in the industry, **SCAPES, INC.** has openings in its Atlanta and Washington D.C. offices. We are seeking to hire highly trained professionals in all phases of the company—irrigation, maintenance and installation. Higher than industry standard wages. Contact **Scapes, Inc.** for interview at:

404-956-7500

LANDSCAPE SUPERVISOR. ("INC 500 company") Talented, experienced, supervisor to manage landscape department including scheduling and training personnel development. Challenging growth opportunity with good salary, benefits and company vehicle. Send resume: Attn: Monty Mitchell, Suburban Landscape Associates, P.O. Box 2342, Davenport, IA 52809. 9/88

CAREER OPPORTUNITIES

Expanding Sunbelt region firm has several growth-oriented positions available for experienced and knowledgeable individuals. Openings for: landscape sales representatives, landscape maintenance and construction supervisors, foremen, foremen trainees, pesticide applicators and arborists. Horticultural education and/or experience required. We offer professional wages and benefits for career-minded people. Send resume with education, work and salary history to

LM Box 457

Some of life's best lessons are learned in the school of 'soft knocks'

The young man on the left will fall several times before he hits his first home run. The young man on the right wants him to have the advantage of falling on real turf.

We think it's curious that the same lawmakers who insist that individuals and corporations make environment and products safer for children neglect to legislate safer standards for school playgrounds.

It's no doubt easier to make us spend our own cash to improve conditions than to appropriate public funds for safe playing areas.

Things are changing ... slowly ... but NSTC has been instrumental in distributing information and talking to some appropriate people, but it all takes time and money.

While we're waiting for the big picture to change, we can all improve our little corner ... like planting an improved turf plot of our own, then using it! When officials see how much more fun we're having, they'll no doubt want in on the action.

For free brochure and membership application, call or write to Fred V. Grau, Chairman

NSTC
NATIONAL SPORTS TURF COUNCIL

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Beltsville, MD 20705
301/344-3655

BOOKSTORE

010 - ADVANCES IN TURFGRASS PATHOLOGY
by Joyner and Larsen
Leading U.S. turf pathologists report on turfgrass diseases, pythium blight, snow molds, fairy rings, leaf spot of Kentucky bluegrass in Minnesota, initial and field fungicide screening, turfgrass disease resistance, etc. Contains new ideas on how to combat turfgrass problems. **$27.95**

220 - CONTROLLING TURFGRASS PESTS
by Shurtleff, Fermanian, Randell
New comprehensive guide provides the most up-to-date information available on the identification, biology, control and management of every type of turfgrass pest. Covers weeds, insects, animal pests and diseases in detail. Also provides information on cultural management practices: the establishment, care and renovation of low-, medium-, and high-maintenance turf areas. 50 color and 400 black and white photographs. **$32.00**

230 - LAWNS-Third Edition
by Dr. Jonas Vengris and Dr. William A. Torello
Designed as a textbook or a practical usage manual, this book has been completely brought up-to-date. Care of lawns and turfgrass, from selection of varieties to maintenance of established grass is completely covered. **$25.95**

645 - MANAGEMENT OF TURFGRASS DISEASES
by J.M. Vargas
Identifies turfgrass diseases by description and illustration. Includes a holistic approach to healthy turf and lawns. Presents practical management strategies for golf courses, lawns and athletic fields. 204 pages, illustrated. **$26.70**

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by James Watkins
A guidebook for engineers, architects, designers and contractors. Keeps pace with the latest developments in turf and landscape irrigation. Specific chapters devoted to rotary sprinkler design systems. Golf course design systems and expanded engineering and reference material. **$26.55**

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by A.J. Turgeon
Revised edition. Covers the latest developments in turfgrass science and technology. Heavily illustrated with dozens of new drawings. Provides specific recommendations for applying the newest pesticides, fertilizers and other materials to combat turfgrass problems. A valuable reference for diagnosing problems and determining their causes. **$39.33**

615 - TURF MANAGEMENT FOR GOLF COURSES
by James Beard
Written by an eminent turfgrass researcher, this USGA sponsored text is an ideal reference and "how to" guide. Details all phases of golf course design and construction, turf management, course administration, irrigation, equipment and disease and pest control. Fully illustrated. **$52.75**

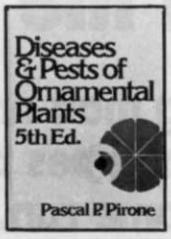
620 - TURF MANAGEMENT HANDBOOK
by Howard Sprague
Practical guide to turf care under both healthy and poor turf conditions. Chapters cover turf in cooler and warmer regions, fertilizer use, regular turf care, weed and disease control and special turf problems. Useful seasonal schedules for management of turf areas. **$25.25**

110 - TURF MANAGERS' HANDBOOK Second Edition
by Daniel and Freeborg
ENTIRELY UPDATED. A practical guide for the turf practitioner. Chapters on grasses, growth regulators and diseases have had extensive modification. Innovations resulting from research and practice have been added to reflect the current techniques available for turf managers. Offers recommendations for effective turf protection through integrated pest management. Included are alternate plans for providing and improving safe, uniform turfgrass for sports fields. Outline format plus newly added index make this new edition easier to use and a more comprehensive approach to turfgrass science. **$32.95**

630 - TURFGRASS: SCIENCE AND CULTURE
by James Beard
Comprehensive basic text and reference source used in many leading university turf programs. Includes findings of current research compiled from more than 12,000 sources. **$39.00**

410 - DISEASES & PESTS OF ORNAMENTAL PLANTS
by Pascal Pirone
This standard reference discusses diagnosis and treatment of diseases and organisms affecting nearly 500 varieties of ornamental plants grown outdoors, under glass or in the home. Easy to understand explanations of when and how to use the most effective fungicides, insecticides and other control methods. **$36.50**

690 - INSECTS THAT FEED ON TREES AND SHRUBS
by Johnson and Lyon
Essential information for identifying more than 650 insect pests and the injuries they cause. More than 200 color illustrations. **$49.50**



570 - WESTCOTT'S PLANT DISEASE HANDBOOK
by Kenneth Horst
This fourth edition offers professionals the latest diagnostic and disease control information. Plant entries designed to simplify diagnosis, plus background on the classification of plant pathogens. This handbook gives a specific description of each disease, susceptible plants, specific symptoms of the disease, reported locations and control measures for each disease and their side effects. **$43.95**

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from Cornell University
A 1,300 page concise dictionary of plants cultivated in the United States and Canada. A reference which every horticulture professional should have. **$125.00**

800 - THE GOLF COURSE
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The first book ever to give the art of golf course design its due, and golf course architects the credit and recognition they deserve. 320 pages and 150 color and black and white photographs. Traces the history and evolution of the golf course, analyzes the great courses, shows how they were designed and constructed. **$35.00**

665 - ARBORICULTURE: THE CARE OF TREES, SHRUBS AND VINES IN THE LANDSCAPE
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Provides comprehensive coverage of complete planting, site analysis, preparation and special planting methods, fully detailed coverage of fertilization, irrigation and pruning guidelines on preventative maintenance, repair and chemical control, how-tos of diagnosing plant problems, practical data on non-infectious disorders, diseases, insects and related pests and pest management. **$52.00**

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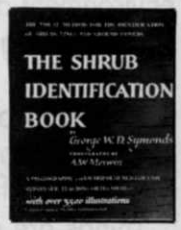
This award-winning reference to native U.S. plants has now been expanded to include shrubs and vines. Over 250 major species are characterized by form, branching pattern, foliage, flower, fruits, habitat, soil, hardiness, susceptibility, urban tolerance and associate species. Includes unique color-coded keys that classify plant species by visual characteristics, cultural requirements and ecological relationships. **$79.95**

720 - SHRUB IDENTIFICATION
by George Symonds
Pictorial key to identify shrubs. Contains more than 3,500 illustrations to check specimens. Popular and botanical names are given for each shrub and handy index tabs for quick reference. **$12.95**



BOOKSTORE

750 - TREE IDENTIFICATION
by George Symonds
Pictorial reference to identifying trees by checking leaves, buds, branches, fruit and bark. Like its sister publication, SHRUB IDENTIFICATION, popular and botanical names are listed with index tabs for easy reference.
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760 - TREE MAINTENANCE
by Pascal Pirone
The fourth edition of this guide for anyone involved in the care and treatment of trees. Special sections on tree abnormalities, diagnosing tree troubles, non-parasitic injuries and assessing the suitability of different trees. **$49.95**

405 - WOODY ORNAMENTALS
by Partyka, Joyner, Rimelspach, Carver
Illustrates plant identification characteristics. Organized in two basic sections: plant identification and plant disorders, this text utilizes 430 color photos, 430 line drawings and 45 black and white photos to simplify identification.
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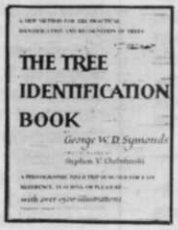

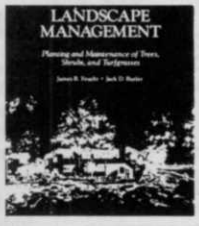

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An updated unit cost data reference for designers and cost estimators. Developed to fill the tremendous need for detailed landscape construction cost data. Laid out in easy-to-use CSI format. Annual.
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by Leroy Hannebaum
Geared for the commercial designer/salesperson, this is a one-stop guide to the landscape design process. Covers the entire highly competitive field including design analysis techniques, pointers on land forms, specialized business landscaping methods, environmental design guidelines, specifications, estimations, bids. **$37.00**

305 - LANDSCAPE MANAGEMENT
by James R. Feucht and Jack D. Butler
Planting and Maintenance of Trees, Shrubs, and Turfgrasses. Describes the basic principles of cultural management of installed landscapes. The important factors of plant growth, soils and fertilizers, improved planting techniques and new pruning techniques, integrated pest and disease management, and spray-equipment calibration and care are all featured. **$29.95**

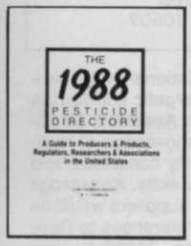
370 - LANDSCAPE OPERATIONS: MANAGEMENT, METHODS & MATERIALS
by Leroy Hannebaum
An in-depth examination that combines technical training in landscape science with methods of accounting, business management, marketing and sales. Discusses effective methods for performing lawn installations, landscape planting and maintenance. Step-by-step accounting calculations are explained in simple terms. **$34.00**

365 - LANDSCAPE PLANTS IN DESIGN
by Edward C. Martin
An annotated photographic guide to the design qualities of ornamental plants and their aesthetic and functional use in landscape designing. Over 600 trees, shrubs, vines, ground covers and turfgrasses are described in nontechnical language. Over 1900 photographs. Provides a basis for selecting the best plant materials for any particular use in landscape design. Contains detailed indexes that provide quick reference to particular design qualities and growing conditions. **$58.95**

375 - RESIDENTIAL LANDSCAPES
by Gregory M. Pierceall
An excellent reference for individuals involved in the design and development of plantings and constructed features for residential sites. Illustrations and actual residential case study examples are used to communicate graphic, planning and design concepts which are the focus of this text. **$41.00**

565 - WEEDS
by Walter Muenscher
Second edition. Premier text for identification and basic natural history for weeds found in the continental United States and Canada. Ecological data on weed biology combined with excellent keys and plant descriptions make this an essential reference book.
$39.95

125 - SCIENTIFIC GUIDE TO PEST CONTROL OPERATIONS
by Truman, Bennett, Butts
Provides a sound basis for studying the technical aspects of pest control. Covers pesticides, safety, health and environmental concerns, equipment, flies and mosquitos, rats and mice, birds and much more. **$35.00**



500 - THE 1988 PESTICIDE DIRECTORY
by Lori Thomson Harvey and W.T. Thomson
A Guide to Producers and Products, Regulators, Researchers and Associations in the United States. For the person who needs to know anything in the United States pesticide industry. Includes Basic Manufacturers and Formulators with their products, key personnel, managers, district/regional offices and other pertinent information. For United States pesticide information in one place, this directory is a must.
$75.00

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(postage & handling)

Please allow 6-8 weeks for delivery.
Prices subject to change.
Quantity rates available on request.

Total Enclosed _____

LM

HELP WANTED

TREE DEPARTMENT MANAGER: Large landscape contracting company in southeastern Pennsylvania with a well established tree division needs an experienced, mature individual to handle sales and management of department. Great opportunity in a busy area. Send resume to LM Box 458. 9/88

TREE CLIMBERS/BUCKET TRUCK OPERATORS. Landscape maintenance company needs reliable, experienced persons for immediate employment. Salary negotiable based on training and experience. Send resume with references to Boyd Enterprises, 16632 Oakmont Avenue, Gaithersburg, MD 20877. 10/88

FIELD PRODUCTION MANAGER - Excellent employment opportunity available for major farming operation in southern New Jersey. Salary pay up to $25,000/year plus benefits. Send resume to: Jade Run Sod Farm, P.O. Box 586, Mt. Holly, NJ 08060, or call (609)265-0404. 9/88

Excellent career opportunities for aggressive experienced professionals in our growing, award winning Company: **Production Manager, Landscape & Maintenance Supervisors, Chemical Applicator, Irrigation Superintendent**. Please send resume & salary requirements or call for more info. **RUPPERT LANDSCAPE COMPANY, INC.**, 17701 New Hampshire Avenue, Ashton, MD 20861, 301-924-5415. Attn: Kenneth Hochkeppel. 9/88

Large landscape - grounds maintenance company looking for qualified Foreman. Knowledgeable in plant identification and pruning. Must have good management and communications skills. Excellent pay for the right person. Send resume in confidence to: R.B. Stout, Inc., 1285 N. Cleve-Mass Rd., Akron, OH 44313. 9/88

LANDSCAPE DESIGNER: Greener Landscapes is seeking an experienced landscape designer to join our rapidly growing organization. You must be able to oversee projects from beginning to end including design, job cost estimation and overseeing installation. The ability to design, present and sell your designs will be essential to your success. Qualified candidates send resume with salary requirements to Greener Landscapes, P.O. Box 341, Bedford Hills, NY 10507, or call 914-666-0714. 9/88

MANAGEMENT — Established Midwest company with solid growth is once again needing top-notch working managers to fill the following positions:

MARKETING/SALES MANAGER — Must be progressive minded, large budget for 3-6 branches of planning and implementation training sales managers, 3 years minimum, verifiable experience in LM field.

SALES MANAGEMENT — Branch level with full responsibility for telemarketing, mailing, etc. $300,000-$500,000 sales annually. Full-time position.

BRANCH MANAGERS — Two years experience preferred, must have both spray application and landscape maintenance background. Extremely busy and fun position.

We are a full service multi-department company with a growth curve created by careful placement of qualified individuals. Competitive salary & benefits with solid growth potential. Resumes to: Landscape Opportunities, P.O. Box 471333, Tulsa, OK 74147-1333.

LANDSCAPE MAINTENANCE FOREMAN

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June 1, 1988

AN OPEN LETTER TO ROADSIDE VEGETATION MANAGERS
For
DOT: TURNPIKES, COUNTIES, AND CITIES

If your vocation is roadside vegetation - landscaping or maintenance then we believe the National Roadside Vegetation Management Association should be of interest to you.

New officers of NRVMA are, from left, Paul Corridon, American Cyanamid, secretary-treasurer: Carl B. Wells, Kentucky DOT, president: and Robert E. Tatman, Ohio DOT, vice president.

We meet once a year and our next conference is scheduled for October 11 - 13 at the Dallas, TX Hilton. NRVMA was formed in 1984 to exchange ideas, opinions and experiences, to discuss vegetation management activities regarding safety, functional and operational characteristics, economy, roadside beautification and aesthetics, and ecological soundness; and to promote more and better coordinated efforts among those interested and engaged in roadside vegetation management.

There are 5 types of memberships - Roadside Managers, Associate, Affiliate, Supporting and Sustaining. The two primary memberships are Roadside Managers at a cost of $35 per year and Associate which costs $45 per year.

THE INGREDIENTS OF A CONFERENCE

▲ **Educational lectures and talks on the topics most relevant to roadside management;**

Landscaping & Beautification	Roadside Management Equipment
The Use of Wildflowers	Mowing Equipment and Practices
Herbicides and their Use	Soil Stabilization
Growth Regulators	State and Federal Regulations
Roadsides and the Environment	Roadside Parks

▲ **Equipment show/product exhibits. Forty-eight major suppliers exhibited their products at the last conference.**
A 3 1/2 hour period allows each exhibitor an Opportunity to demonstrate/explain product performance.

▲ **Regional Sessions**
The country is divided into 3 geographical areas (N, S, W) and a 2 1/2 hour time period is scheduled so that roadside managers with common problems can exchange ideas/information on the how and whys of their programs.

▲ **Roadside Excellence in Roadside Management**
NRVMA cooperation with Monsanto sponsors a 4 category program to determine the most successful roadside managers in the U.S. The contest is categorized: State Highways and Turnpikes, Counties, Cities, and Roadside Support. Winners are announced during a special luncheon and then they are allowed 25 minutes of time on the program to review their winning programs. This is followed by national publicity in the major roadside magazines and local publicity. The objective is to upgrade the roadside management practices and generate support for the industry.

Winners of the 1987 NRVMA Excellence in Roadside Vegetation Management Awards are, from left, Richard Friddle, city of Bossier, La: Don Squire, Jackson County, Ore.; Joe Hay, Oregon Highway Division: and Gerald Stephenson, DuPont.

We are confident NRVMA has plenty to offer vegetation managers and we look forward to "seeing you in Dallas."

Sincerely Yours,
Carl B. Wells,
President NRVMA

For additional information, cut out and mail to:

T.J. Hernandez
309 Center Hill Road
Wilmington, DE 19807

I am interested in Membership:
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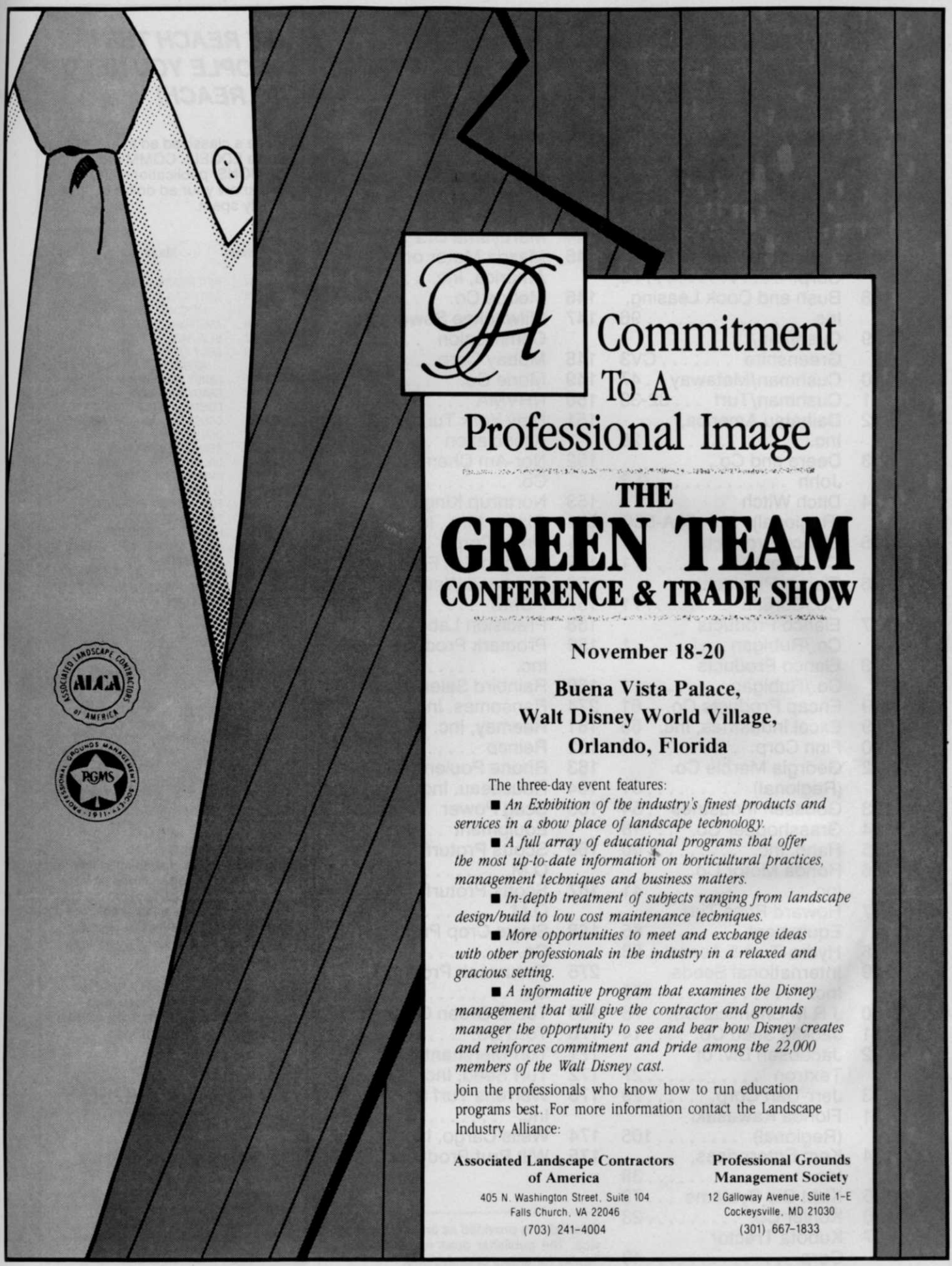

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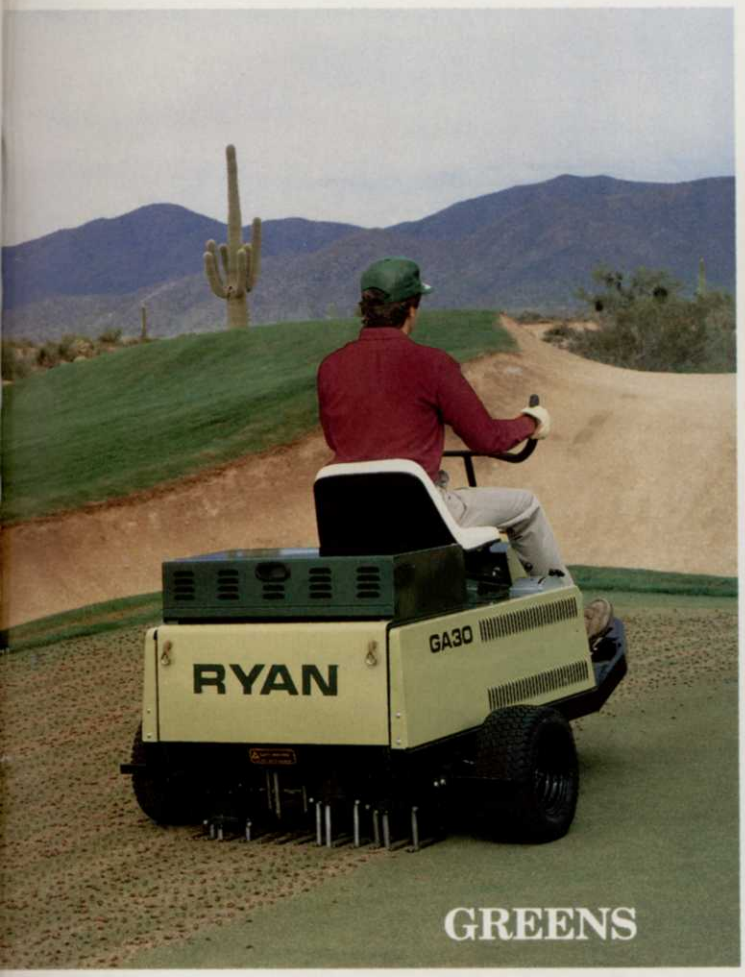
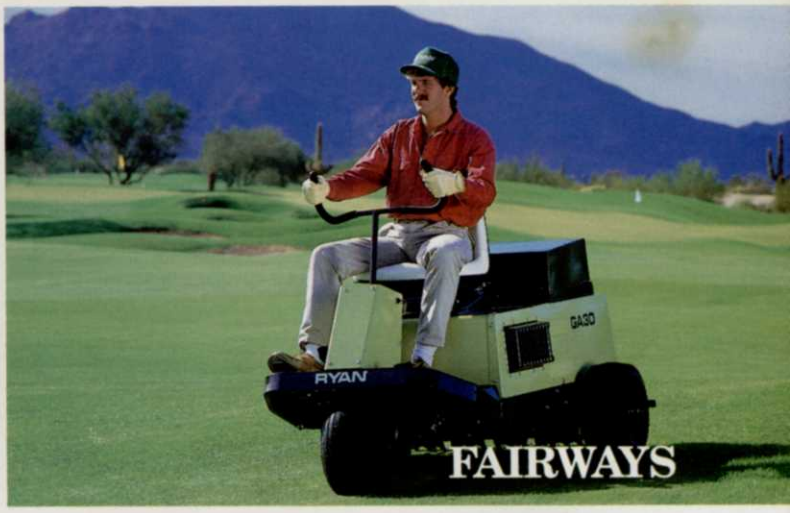
Introducing the first full-course aerator.





Ryan's new GA™ 30 aerates on the greens and in between.

Now you can deliver green-quality aeration to your entire course with a single piece of equipment. Variable core spacing makes the GA 30 aerator as good on fairways as it is on greens. Simply move the spacing adjustment control from 1″-5″ and anywhere in between, lock it in place, and you're ready to go without leaving your seat.

Spacing 2.50 in. x ( ) in.	Production sq. ft. per hr.	Yield holes/sq. ft.
1.00	5,625	57.6
2.00	11,250	28.8
3.00	16,875	19.2
4.00	22,500	14.4
5.00	28,125	11.5

The GA 30 aerator also helps you get on and off the course more quickly. Its 18 hp engine produces a six mph transport speed that's two-three times faster than other aerators. So why waste time walking when you can ride to work?

No other aerator delivers Ryan quality.

Ryan's crank drive penetrates straight in at a depth of up to 3-3/4 inches. The tine-ram, ground-driven, reversing gear box pulls cores straight out to better protect your turf from damage – no matter what the spacing.

For a feel of the most cost-efficient aerator money can buy, contact the Ryan dealer nearest you for a free demonstration. Or call toll free:

1-800-228-4444.

RYAN®

BUILT TO LAST

A CUSHMAN Product Group

6190 Cushman, OMC-Lincoln, P.O. Box 82409, Lincoln, NE 68501

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Get the benefits of Wildflowers and the experience of Lofts

Marie Pompei

Wildflowers! They're a beautiful, low-maintenance alternative to mown turf. And no one can help you choose wildflowers better than Marie Pompei at Lofts.

As a wildflower specialist, Marie will consider your geographical area, the soil moisture, height of growth and time of flowering. She'll even consider colors. Then she'll recommend the specific mix to provide the best results.

If soil erosion or weed invasion are problems in your area, Marie can suggest the best companion grass. She'll also suggest how to properly manage the field for optimum floral display in the years to come.

Wildflowers need very little care. So they're perfect for roadsides, parks, golf courses, estates or industrial sites. They're ideal for areas that are hard to mow. Or any place that needs color. Try low-maintenance, natural wildflowers as your colorful alternative to high-maintenance turf. And get your wildflowers from Lofts.

Lofts has been a leader in the seed business since 1923. In fact, Lofts introduced Pinto as one of the first commercial wildflower mixtures.

Call Marie at Lofts today. She'll help you select the wildflower mix suited to your needs.

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